SAFETY DATA SHEET

MCL-P+BASECOAT

Prepared to OSHA, ANSI, NOHSC, WHMIS, 1002/58 & 1272/2008/EC Standards | SDS Revision: 4.2

SDS Revision Date: 3/4/2015

1. PRODUCT INDENTIFICATION 1.1 Product Name: LIGHT ELEGANCE P* BASE COAT 1.2 Chemical Name: POLYURETHANE (METH) ACRYLATE PREPOLYMER RESIN BLEND 1.3 Synonyms: NA 1.4 Trade Names: NA Product Use: 1.5 EXTERNAL USE ONLY, KEEP OUT OF THE REACH OF CHILDREN Manufacturer's Name: MCCONNELL LABS. INC. Manufacturer's Adress: 406 SW UMATILLA AVE, REDMOND, OR 97756 USA 1.8 Emergency Phone: CHEMTREC: +1 703 527 3887 / +1 800 424 9300 (CCN 696869)

2. HAZARD INDENTIFICATION

Hazard Identification: 2.1

Business Phone / Fax:

+1 541 526 1417 / +1 541 526 1418

This product is classified as a HAZARDOUS SUBSTANCE and as a DANGEROUS GOOD according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia). WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. CAUSES EYE IRRITATION. Hazard Statements (H): H226 - Flammable liquid and vapor. H317 -May cause an allergic skin reaction. H320 - Causes eye irritation. Precautionary Statements (P): P210 - Keep away from heat/sparks/open flame/hot surfaces - No Smoking. P223 - Keep container tightly closed. P243 - Take precaustionary measures against static discharge. P261 - Avoid breathing fumes/gas/vapors/spray. P272 - Contaiminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves. P302 + P352 - IF ON SKIN - wash with soap and warm water. P305 + P351 + P338 - IF IN EYES - Rince continually with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. P333 + P313 - If skin reaction or a rash occurs, get medical attention. P337 + P313 - ilf eye irritation persists, P321 - for specific first aid treatment (see section 4 of this Safety Data Sheet). P363



Routes of Entry: Absorption: YES Inhalation: YES Ingestion: YES

2.3 Effects of Exposure:

> If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervouse system depression. INGESTION:

EYES & SKIN: The liquid may produce eye discomfort and is capable of causing temporary impairment of vision and/or transient eye

> inflamation, ulceration. The vapor is discomforting to the eye. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. May be irritating to the skin, especially after prolonged contact. The product can cause allergic skin reactions

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Vapors of this product may be moderately irritating to the nose, throat and other tissues of the respiratory system. Symptoms INHALATION: of overexposure can include coughing, wheezing, nasal congestion and difficulty breathing. Inhalation of concentrated vaors

can cause central nervous system depression (e.g., drowsiness, headaches, nausea). Odor may give some warning of

exposure but odor fatigue may occur.

2.4 Symptoms of Overexposure:

Symptoms of skin overexposure may include redness, itiching and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, welts, deratitis) upon prolonged or repeated exposure.

2.5 Acute Health Effects:

> Moderate irritation to eyes near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.

2.6 Chronic Health Effects:

The material may cause an allergic reaction for some sensitive individuals.

Target Organs:

Eyes, skin

		3. COM	POSITION -	& INGRE	DIEN.	<u> T IN</u> F	ORM	ATIO	N				
					EXPO	SURE L	IMITS	IN AIR	(mg/m	3)			
					AC	GIH		NOHS	0		OSHA	\	
					р	pm		ppm			ppm		
							ES-	ES-	ES-				OTUED
- (-)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	OTHER
Bis-HEA	NA	NA	NA	10-30	NA	NA	NF	NF	NF	NA	NA	NA	
Poly(propyleneglycol)-													
53/IPDI Copolymer					_		1			1			
Bis-HEA Poly(1,4-	NA	NA	NA	10-30	NA	NA	NF	NF	NF	NA	NA	NA	
butanediol)-9 / IPDI						ı	ī	ı		ı	1		
Bis-HEMA	82339-16-0	NA	NA	10-30	NA	NA	NF	NF	NF	NA	NA	NA	
Polyneopentyl Glycol													
Adipate/ IPDI													
Canalymer				1	-	1	T	1	1	1	1	1	
TETRAHYDROFUFURYL	2455-24-5	NA	219-529-5	5-13	NE	NE	NE	NE	NF	NE	NE	NE	
METHACRYLATE			1				ī	1	1	1	1		
ISOBORONYL	7534-94-3	NA	231-403-1	5-13	NE	NE	NE	NE	NF	NE	NE	NE	
METHACRYLATE			T			1	T	ı	ı	1	1		
SUCROSE BENZOATE	12738-64-6	NA	235-795-5	5-13	NA	NA	NA	NA	NF	NA	NA	NA	
		1	T			1	1	1		1	1	1	
1-	947-13-3	NA	213-426-9	≤1.0	NA	NA	NF	NF	NF	NA	NA	NA	
HYDROXYCYCLOHEXYL	Accute Tox. Ora	ıl 5; Aquatic Acı	ıte 3; H225, H	319, H402									
PHENYLKETONE	=======================================	1	Ta-a a a	T	1	1	T	T	I	1	T	1	
TRIMETHYLBENZOYL	75980-60-8	NA	278-355-8	≤1.0	NA	NA	NF	NF	NF	NA	NA	NA	
DIPHENYLPHOSPHINE													
OXIDE		1	1.00.010.5	Lua	1	T	I	l	l	l	1	T 1	
ETHYL	84434-11-7	NA	423-340-5	≤1.0	NA	NA	NF	NF	NF	NA	NA	NA	
TRIMETHYLBENZOYL	Skin Sens. 1; Aq	uatic Chronic 4	; H317, H413										
** Due to trade s													

** Due to trade secret information, more detailed concentrations of the ingredients cannot be provided.

4. FIRST AID MEASURES

4.1 First Aid:

INGESTION: If ingested, do not induce vomiting! If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison

Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the

amount of the substance that was swallowed.

SKIN & EYES: If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s)

to ensure thorough irrigation. Seek immediate medical attention. If problem persists, seek immediate medical attention. If irritation occurs & product is on the skin, rinse thoroughly with lukewarm water followed by a thorough washing of the affected area with plenty of soak and waster. Remove all contaminated clothing including footwear and wash thoroughly

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INHALATION: Remove victim to fresh air at once. If breathing stops, perform artificial respiration. Seek immediate medical attention.

4.2 Medical Conditions Aggravated by Exposure:

Pre-existing dermatitis, other skin conditions and disorders of the target organs (eyes, skin)

	HEALTH	1
1)	FLAMMABILITY	0
	PHYSICAL HAZARDS	1
	PROTECTIVE EQUIPMENT	В
	EYES SKIN	

5. FIREFIGHTING MEASURES

- 5.1 Flashpoint & Method:
 - >100 °C (>212 °F)
- 5.2 Autoignition Temperature:

NA

- 5.3 Flammability Limits: Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA
- 5.4 Fire & Explosion Hazards:

This product is slightly flammable. When involved in a fire, this product may ignite and decompose to form toxic gases (e.g., CO, CO2 and Nox)

5.5 Extinguishing Methods:

Water, Foam, CO2, Dry Chemical

5.6 Fire Fighting Procedures:

First responders should wear eye protection. Structural fire fighters must wear full protective equipment and MSHA/NIOSH approved, self-contained breathing apparatus. If possible, prevent runoff water from entering storm drains, bodies of water or other environmentally sensitive reas. If necessary, rinse contaminated equipment with soapy water before returning to service.

6. ACCIDENTAL RELEASE MEASURES

6.1 Spills:

Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., ,1 gallon [3.785 liters]) wear appropriate personal protective equipment (e.g., goggles & gloves). Maximize ventilation (open doors and windows). Expose spilled material to UV light source for 2-5 minutes. Lift cured material from substrate and repeat until very little residue remains. Remove remaining spilled material with absorbent material and place into appropriate closed container(s). Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with warm, soapy water. Remove any contaminated clothing and wash before reuse. For large spills (e.g., >1 gallon [3.785 liters]) deny entery to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Expose spilled material to UV light source for 2-5 minutes. Lift cured material from substrate and repeat until very little residue remains. Remove remaining spilled material with absorbent material and place into appropriate closed container(s). Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of

7. HANDLING AND STORAGE INFORMATION

7.1 Work & Hygiene Practices:

Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a well ventilated location (e.g., local exhaust ventilation, fans). Wash exposed skin thoroughly with plenty of soap and water after using this product. If necessary, use a

7.2 Storage & Handling:

Use and store in a cool, dry, well ventilated location. Keep away from excessive heat. Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devises. Keep containers securely closed when not in use. Open slowly on a level, stable surface. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. As a precaution against exposure to the eyes, nose, throat and face, this product should not be stored higher than waist level. KEEP AWAY FROM CHILDREN AT ALL TIMES!

7.3 Special Precautions:

Do not store where temperatures can exceed 50 °C (122 T).

	8. E	EXPOSURE CONTROLS & PERSONAL PROTECTION	
8.1	Ventilation & Engineering Controls:	Use with adequate ventilation (e.g., local exhaust ventilation, fans). Ensure appropriate de equipment is available (e.g., sink, safety shower, eye wash station).	econtaimination
8.2	Respiratory Protection:	No special respiratory protections is required under typical circumstances of use or handling. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR § 1910.134, application U.S. State regulations or the Candaian CAS Standard Z94.4-93 and applicable	
8.3	Eye Protection:	Wear protective eyewear (e.g., safety glasses with side shields) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses nose a special hazard: soft lenses may absorb and concentrate irritants.	
8.4	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., >1 gallon [3.785]) wear nitrile or imprevious gloves	
8.5	Body Protection:	No apron required when handling small quantities. When handling large quantities (e.g., . 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.	

		9. PHYSICAL & CHEMICAL PROPERTIES	4 0
9.1	Density:	1.1	
9.2	Boiling Point:	NA	
9.3	Melting Point:	ND	
9.4	Evaporation Rate:	NA	
9.5	Vapor Pressure:	<1 (air=1)	
9.6	Appearance & Color:	Clear or pigmented liquid	
9.7	Odor Threashold:	NE NE	
9.8	Solubility:	Not soluble	
9.9	pH:	NA	
9.1	Viscosity:	approximately 2,000 cps	
9.1	Flash Point:	26.7 °C (80 °F), calc	
9.1	Other Information:	NA	

10. STABILITY & REACTIVITY

10 Stability:

Relatively stable under ambient conditions when stored properly.

10 Hazardous Decomposition Products:

If exposed to extremely high temperatures, products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of carbon and nitrogen).

10 Hazardous Polymerization:

Will not occur.

10 Conditions to Avoid:

Exposure or contact to extreme temperatures, incompatable chemicals, strong light sources, sparks and flame.

11 Incompatable Substances:

Strong oxidizers, peroxides, strong acids or alkalis.

11. TOXICOLOGICAL INFORMATION

11 Toxicity Data:

This product has NOT been tested on animals to obtain toxicology data. There are toxicology data for the components of the produt which are found in scientific literature. These data have not been presented in this document.

11 Acute Toxicity:

See Section 2.5

11 Chronic Toxicity:

See Section 2.6

11 Suspected Carcinogen:

The ingredients of this product are not listed as carcinogens by the National Toxicology Program and have not been evaluated by the Internail Agency for Research on Cancer or the American Conference of Government Industrial Hygenists.

12 Reproductive Toxicity:

This product is not reported to cause reproductive toxicity in humans.

Mutagenicity:

This product is not reported to produce mutagenic effects in humans.

Embryotoxicity:

This product is not reported to produce embryotoxic effects in humans.

Teratogenicity:

This products is not reported to cause teratogenic effects in humans.

12 Irritancy of Product:

See Section 2.3

12 Biological Exposure Indicies:

NE

12 Physician Recommendations:

Treat syptomatically

12. ECOLOGICAL INFORMATION

12 Environmental Stability:

This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds. Butyl Acetate: K_{OC} = 1.82. Water Solubility: 120 parts H₂O at 25 °C (77 °F). Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization and biodegredation. This compound's half life is 6.1 hours.

12 Effects on Plants & Animals:

There is no specific data availble for this product on plant life.

12 Effects on Aquatic Life:

There is no specific data availble for this product on aquatic life.

	13. DISPOSAL CONSIDERATIONS	
	aste Disposal:	
	spose inaccordance with local, state and Federal waste laws.	
1 .	ecial Considerations:	
Th	is material becomes an inert plastic upon prolonged exposure to sources of UV light and sunlight. Disposal of inert plastic	s is safer for the
en	vironment and is more easily handled for disposal according to local, state and Federal regulations.	
	14. TRANSPORTATION INFORMATION	
	c description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transpo	ortation. Additiona
	ive information may be required by 49 CFR. IATA/ICAO. IMDG. SCT. ADR and the CTDGR.	
	9 CFR (GRD):	
NC	OT REGULATED	
	TA (AIR):	
NC	OT REGULATED	
	IDG (OCN):	
	OT REGULATED	
	OGR (Canadian GND):	
NC	OT REGULATED	
	DR/RID (EU):	
	OT REGULATED	
	EXICO (SCT):	
	OT REGULATED	
	OGR (AUS):	
INC	OT REGULATED	
	15. REGULATORY INFORMATION	
15 SA	RA Reporting:	
N.A		
	RA Threshold Planning Quantity:	
N/		
	CA Inventory Status:	
	components of this product are listed in the TSCA Inventory or are exempt	
	RCLA Reportable Quantity (RQ):	
NA		
	ther Federal Requirements:	
	is products complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetic	S).
	ther Canadian Regulations:	
	is product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information	(T)
	quired by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this	\cdot
	oduct are on the Priorities Substances List.	
	ate Regulatory Information:	
NC	ONE	
16 67	7/548/EEC (European Union), Australian NOHSC:2011 (2003), and GHS Requirements:	
TOID /		
	e primary cononents of this product are not listed in Annex 1 of EU Directive 6//548/EEC. Irritant (XI). Risk Phrases (R):	
Th	e primary cononents of this product are not listed in Annex 1 of EU Directive 67/548/EEC. Irritant (Xi). Risk Phrases (R):	
Th:	5/37/38 - Irritating to eyes, respiratory system and skin. Safety Phrases (S): 2-23-29 - Keep out of reach of Children. Do	X
Th:		×

16. OTHER INFORMATION

16 Other Information:

WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Avoid breathing fume, gas, mist, vapors, spray. Wear potective gloves and eye/face protection. IF ON SKIN - Wash with soap and water. IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If skin irritation or a rash occurs - get medical advice/attention. Do not take internally. Keep away from heat and open flame. KEEP OUT OF THE REACH OF CHILDREN.

16 Terms & Definitions:

Please see last page of this SDS.

16 Disclaimer:

This Safety Data Sheet (SDS) is offered persuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other governement regulations must be reviewed for applicability to this product. To the best of McConnell Labs' knowledge, the information contained herein is reliable and accurate as of the date it was prepared; 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 sonsult the latest edition.

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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
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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:

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.

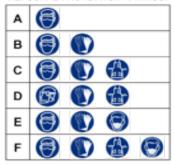
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

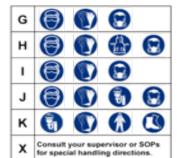
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:



















Respirator





u or SCBA

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

FLAMMABILIT	TY LIMITS IN AIR:
	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	
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	
w	Use No Water	
OX	Oxidizer	
TREFOIL	Radioactive	



TOXICOLOGICAL INFORMATION:

LD ₁₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s				
LC ₁₀	Lethal concentration (gases) which kills 50% of the exposed animal				
ppm	Concentration expressed in parts of material per million parts				
TD _{is}	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,, LC,, & LC,					
IARC	International Agency for Research on Cancer				
NTP	National Toxicology Program				
RTECS	Registry of Toxic Effects of Chemical Substances				
BCF	Bioconcentration Factor				
TL	Median threshold limit				
log Kow or log Koc	Coefficient of Oll/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	(b)	((2)	①	®	(3)	Ŕ
Class A	Class 0	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	York	Imitation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

I.	飂	*	*	8	2	×	×
С	E	F	N	0	т	×i	Xn
Corrosive	Explosive	Flammable	Hannful	Oxidizing	Toxic	Intigent	Haomful

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

\langle	③	③	\Diamond	\Diamond	③		&	\$
GH801	GH902	GH503	GH904	GHS05	GHS06	GH807	GHS08	GH909
Explosive	Flammatrie	Oxidizer	Pressurized	Corrosive	Toxic	Harmful imitating	Health Hazard	Environment