LEXCAN MATERIAL SAFETY DATA SHEET

DATE PREPARED: 05/08/15

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME

PVC LOW VOC BONDING ADHESIVE

SUPPLIER NAME AND ADDRESS

Lexsuco 2010 Corporation
3275 Orlando Dr.
Mississauga, Ontario L4V 1C5
Tel: 905.792.8300 Fax: 905.792.8305

EMERGENCY TELEPHONE NUMBER:

CANUTEC 613-996-6666 (24 hours every day)
CHEMTREC 1-800-424-9300
Regulatory Information Number:
Tel: 1-877-792-8308

Chemical Family: Adhesive
General Use: Low VOC Adhesive

SECTION 2 – HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids:	Category 2
Aspiration Hazard:	Category 1
Serious Eye Damage/Eye Irritation:	Category 2A
Skin Sensitization:	Category 1A
Specific Target Organ Toxicity:	
Single Exposure :	Category 1 (central nervous system)
Single Exposure:	Category 2 (kidneys)
Single Exposure:	Category 3
Repeated Exposure:	Category 1 (central nervous system,peripheral nerve system)
Repeated Exposure:	Category 2 (blood)

GHS Label Elements
Symbol(s)

Signal Word: Danger

Hazard Statement(s):

- Highly flammable liquid and VAPOUR
- May be fatal if swallowed and enters airways
- Causes serious eye irritation
- May cause allergic skin reaction
- Causes damage to organs
- May cause damage to organs
- May cause respiratory irritation.
- May cause drowsiness or dizziness
- Causes damage to organs through prolonged or repeated exposure
- May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention:

- Keep container tightly closed
- Keep away from heat/sparks/open flame/hot surfaces - No smoking
- Ground/Bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting equipment
- Take precautionary measures against static discharge
- Use only non-sparking tools
- Use only outdoors or in a well-ventilated area
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapours/spray
- Wash thoroughly after handling
- Contaminated work clothing must not be allowed out of the workplace
- Do not eat, drink or smoke when using this product

Response:

- In case of fire: Use appropriate media to extinguish
- If exposed or concerned: Call a POISON CENTER or doctor/physician
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor if you feel unwell
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
- If skin irritation or rash occurs: Get medical advice/attention
- Wash contaminated clothing before reuse
- IF SWALLOWED: Immediately call a POISON CENTER/doctor
- Do NOT induce vomiting Specific treatment (see label)

Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations

Other Hazards: No additional information available.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS #	Percent
Polyphenol Antioxidant	Trade Secret	0.1-1
Sulfur	7704-34-9	0.1-1
Tetramethylthiuram Disulfide	137-26-8	0.1-1
Toluene	108-88-3	1-5
Acetone	67-64-1	40-70
Methyl Ethyl Ketone	78-93-3	1-5

SECTION 4 – FIRST AID MEASURES

Description of Necessary Measures:

If exposed or concerned: Call a POISON CENTER or doctor/physician.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs, seek medical advice/attention.

Eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute: May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system, kidneys. May cause respiratory irritation. May cause drowsiness or dizziness.

Delayed: Causes damage to organs through prolonged or repeated exposure. central nervous system, peripheral nerve system, blood.

Note to Physicians: Contains: toluene, acetone, methyl ethyl ketone.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media: Dry chemical, foam or carbon dioxide. Water may be ineffective.

Unsuitable Extinguishing Media: Do not use high-pressure water streams.

Special Hazards Arising from the Chemical: Highly flammable liquid and vapoUr. Vapours are heavier than air and may travel a considerable distance to a source of ignition and flashback.

Hazardous Combustion Products: Oxides of carbon, various hydrocarbons, nitrogen compounds, hydrogen cyanide

Advice for firefighters: Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Ground/bond container and receiving equipment. Take action to prevent static discharges.

Fire Fighting Measures: Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up:

Remove all sources of ignition. Avoid breathing vapours. Ventilate affected area. Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

Environmental Precautions:

Avoid release to the environment.

SECTION 7 – HANDLING & STORAGE

Precautions for Safe Handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe gas/fume/vapour/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. KEEP OUT OF REACH OF CHILDREN.

Conditions for Safe Storage, Including any Incompatibilities:

Store in a well-ventilated place. Keep container tightly closed Keep cool Store locked up
Keep away from heat and ignition sources. Keep separated from incompatible substances. Do not cut, puncture, or weld on or near this container.

Incompatible Materials:

Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

SECTION 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

Component Exposure Limits:

Tetramethylthiuram disulfide	137-26-8	
ACGIH:	0.05 mg/m3 TWA inhalable fraction and vapour	
NIOSH:	5 mg/m3 TWA	100 mg/m3 IDLH
OSHA (US):	5 mg/m3 TWA	
Mexico:	1 mg/m3 TWA LMPE-PPT	

Toluene	108-88-3	
ACGIH:	20 ppm TWA	
NIOSH:	100 ppm TWA; 375 mg/m3 TWA	150 ppm STEL; 560 mg/m3 STEL
	500 ppm IDLH	
Europe:	50 ppm TWA; 192 mg/m3 TWA	100 ppm STEL; 384 mg/m3 STEL
	Possibility of significant uptake through the skin	
OSHA (US):	200 ppm TWA	300 ppm Ceiling
Mexico:	50 ppm TWA LMPE-PPT; 188 mg/m3 TWA LMPE-PPT	
	Skin - potential for cutaneous absorption	

Acetone	67-64-1	
ACGIH:	250 ppm TWA	500 ppm STEL
NIOSH:	250 ppm TWA; 590 mg/m3 TWA	2500 ppm IDLH (10% LEL)
Europe:	500 ppm TWA; 1210 mg/m3 TWA	
OSHA (US):	1000 ppm TWA; 2400 mg/m3 TWA	
Mexico:	1000 ppm TWA LMPE-PPT; 2400 mg/m3 TWA LMPE-PPT	
	1260 ppm STEL [LMPE-CT]; 3000 mg/m3 STEL [LMPE-CT]	

Methyl ethyl ketone	78-93-3	
ACGIH:	200 ppm TWA	300 ppm STEL
NIOSH:	200 ppm TWA; 590 mg/m3 TWA	300 ppm STEL; 885 mg/m3 STEL
	3000 ppm IDLH	
Europe:	200 ppm TWA; 600 mg/m3 TWA	300 ppm STEL; 900 mg/m3 STEL
OSHA (US):	200 ppm TWA; 590 mg/m3 TWA	
Mexico:	200 ppm TWA LMPE-PPT; 590 mg/m3 TWA LMPE-PPT	
	300 ppm STEL [LMPE-CT]; 885 mg/m3 STEL [LMPE-CT]	

Biological limit value: There are no biological limit values for any of this product's components.
Engineering Controls: Provide for sufficient ventilation. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment:

Eye/face protection: Wear chemical safety goggles. Maintain eye wash fountain and quick-drench shower in work area.
Skin Protection: Wear work clothes with long sleeves. White protective boots. Recommended material: protective skin cream.
Respiratory Protection: In case of inadequate ventilation wear respiratory protection.
Glove Recommendations: Wear impermeable gloves.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance	pale yellow or amber	**Physical State**	liquid
Odour	ketone odour	**Colour**	pale,yellow or amber
Odour Threshold	Not available	**pH**	Not available
Melting Point	-95 - -87 °C (-139--124 °F)	**Boiling Point**	56 - 111 °C (133-231 °F)
Freezing point	Not available	**Evaporation Rate**	6.1
Boiling Point Range	Not available	**Flammability (solid, gas)**	Not available
Autoignition	404 °C (759 °F)	**Flash Point**	-18 °C(-0.4°F)
Lower Explosive Limit	1.3 %	**Decomposition**	Not available
Upper Explosive Limit	12.8 %	**Vapour Pressure**	171.9 mmHg
Vapour Density (air=1)	2.1	**Specific Gravity (water=1)**	Not available
Water Solubility	Negligible	**Partition coefficient: n-octanol/water**	Not available
Viscosity	2000 cps	**Solubility (Other)**	Not available
Density	0.857 (relative)	**VOC**	<250 g/L

Other Information: No additional information available.

SECTION 10 – STABILITY & REACTIVITY

Reactivity: No reactivity hazard is expected.
Chemical Stability: Stable under normal conditions of use.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Incompatible Materials: Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens
Hazardous decomposition products: Oxides of carbon, various hydrocarbons, nitrogen compounds, hydrogen cyanide

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness.
Skin Contact: May cause mild skin irritation. May cause allergic skin reaction.
Eye Contact: Causes serious eye irritation.
Ingestion: May be fatal if swallowed and enters airways.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50:
The components of this material have been reviewed in various sources and the following selected endpoints are published:

Acrylonitrile-butadiene rubber (Mixture)
- Oral LD50 Rat >30 g/kg
- Dermal LD50 Rabbit >15 g/kg

Polyketone resin (Trade Secret)
- Oral LD50 Rat >10000 mg/kg

Polyphenol antioxidant (Trade Secret)
- Oral LD50 Rat >5000 mg/kg
- Dermal LD50 Rabbit >5000 mg/kg
- Inhalation LC50 Rat >165 mg/L 1 h

Sulfur (7704-34-9)
- Oral LD50 Rat >5050 mg/kg
- Dermal LD50 Rabbit >2020 mg/kg
- Inhalation LC50 Rat >5.49 mg/L

Tetramethylthiuram disulfide (137-26-8)
- Oral LD50 Rat 560 mg/kg
- Dermal LD50 Rat >2000 mg/kg
- Inhalation LC50 Rat 500 mg/m3 4 h

Toluene (108-88-3)
Oral LD50 Rat >7000 mg/kg
Dermal LD50 Rabbit 12 - 14 g/kg
Inhalation LC50 Rat 30 - 35 mg/L
Acetone (67-64-1)
Oral LD50 Rat 5800 mg/kg
Dermal LD50 Guinea pig >7246 mg/kg
Inhalation LC50 Rat 32000 ppm 4 h
Methyl ethyl ketone (78-93-3)
Oral LD50 Rat 2737 mg/kg
Dermal LD50 Rabbit 6480 mg/kg
Inhalation LC50 Mouse 320 mg/L 4 h

Immediate Effects: May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system, kidneys. May cause respiratory irritation. May cause drowsiness or dizziness.

Delayed Effects: Causes damage to organs through prolonged or repeated exposure: central nervous system, peripheral nerve system, blood.

Irritation/Corrosivity Data: Causes serious eye irritation. May cause respiratory irritation.

Respiratory Sensitization: No data available.

Dermal Sensitization: May cause allergic skin reaction.

Component Carcinogenicity

Tetramethylthiuram disulfide 137-26-8

ACGIH: A4 - Not Classifiable as a Human Carcinogen
IARC: Monograph 53 [1991]; Supplement 7 [1987] (Group 3 (not classifiable))

Toluene 108-88-3
ACGIH: A4 - Not Classifiable as a Human Carcinogen
IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Acetone 67-64-1
ACGIH: A4 - Not Classifiable as a Human Carcinogen

Germ Cell Mutagenicity: No data available.
Reproductive Toxicity: No data available.
Specific Target Organ Toxicity - Single Exposure: kidneys, central nervous system
Specific Target Organ Toxicity - Repeated Exposure: blood, peripheral nerve system, central nervous system
Aspiration hazard: May be fatal if swallowed and enters airways.

Medical Conditions Aggravated by Exposure:
Tetramethylthiuram disulfide is classified as a mutagen and reproductive toxicant. However, this component is bound in the polymer portion of the adhesive after manufacturing. After installation of this adhesive, this component is ultimately consumed in the curing reaction. Therefore, this product is not classified as a mutagen or reproductive toxicant.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity
Avoid release to the environment.
Component Analysis - Aquatic Toxicity

Polyphenol antioxidant Trade Secret

Fish: LC50 96 h Oncorhynchus mykiss >0.2 mg/L [semi-static]
Algae: EC50 72 h Pseudokirchneriella subcapitata >0.2 mg/L IUCLID
Invertebrate: EC50 48 h Daphnia magna >0.2 mg/L IUCLID

Sulfur		7704-34-9
	Fish:	LC50 96 h Brachydanio rerio 866 mg/L [static]; LC50 96 h Lepomis macrochirus <14 mg/L [static]; LC50 96 h Oncorhynchus mykiss >180 mg/L [static]
Tetramethylthiuram disulfide		137-26-8
	Fish:	LC50 96 h Cyprinus carpio 0.0003 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 0.13 mg/L; LC50 96 h Lepomis macrochirus 0.034 - 0.05005 mg/L [static]; LC50 96 h Oncorhynchus mykiss 0.048 mg/L; LC50 96 h Oncorhynchus mykiss 0.00024 - 0.00028 mg/L [semi-static]; LC50 96 h Oncorhynchus mykiss 0.09 - 0.17 mg/L [static]; LC50 96 h Pimephales promelas 0.27 mg/L; LC50 96 h Pimephales promelas 0.0491 - 0.0611 nM [semi-static]; LC50 96 h Poecilia reticulata 0.22 - 0.33 mg/L [semi-static]
	Algae:	EC50 96 h Desmodesmus subspicatus <0.1 mg/L IUCLID
	Invertebrate:	EC50 48 h Daphnia magna 0.21 mg/L IUCLID
Toluene		108-88-3
	Fish:	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oryzias latipes 54 mg/L [static]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]
	Algae:	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA
	Invertebrate:	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [static] EPA; EC50 48 h Daphnia magna 11.5 mg/L IUCLID
Acetone		67-64-1
	Fish:	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static]; LC50 96 h Lepomis macrochirus 8300 mg/L
	Invertebrate:	EC50 48 h Daphnia magna 10294 - 17704 mg/L [static] EPA; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID
Methyl ethyl ketone		78-93-3
	Fish:	LC50 96 h Pimephales promelas 3130 - 3320 mg/L [flow-through]; LC50 96 hr Pimephales promelas 2993 mg/L [static]
	Invertebrate:	EC50 48 h Daphnia magna >520 mg/L IUCLID; EC50 48 h Daphnia magna 5091 mg/L IUCLID; EC50 48 h Daphnia magna 4025 - 6440 mg/L [static] EPA

Persistence and Degradability: No information available for the product.
Bioaccumulative Potential: No information available for the product.
Mobility: No information available for the product.
Other Toxicity: No additional information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14 – TRANSPORT INFORMATION

US DOT Information:

Shipping Name: Adhesives
Hazard Class: 3
UN/NA #: UN1133
Packing Group: II
Required Label(s): 3
Additional information: Special Provisions (172.102): 149, B52, IB2, T4, TP1, TP8

IATA Information: UN#: UN1133

IMDG Information: UN#: UN1133

TDG Information: UN#: UN1133

SECTION 15 – REGULATORY INFORMATION

U.S. Federal Regulations: This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Tetramethylthiuram disulfide 137-26-8
SARA 313: 1 % de minimis concentration
CERCLA: 10 lb final RQ; 4.54 kg final RQ
Toluene 108-88-3
SARA 313: 1 % de minimis concentration
CERCLA: 1000 lb final RQ; 454 kg final RQ
Acetone 67-64-1
CERCLA: 5000 lb final RQ; 2270 kg final RQ
Methyl ethyl ketone 78-93-3
CERCLA: 5000 lb final RQ; 2270 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes **Chronic Health:** Yes **Fire:** Yes **Pressure:** No **Reactivity:** No

U.S. State Regulations: The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Sulfur	7704-34-9	Yes	Yes	No	Yes	Yes
Tetramethylthiuram disulfide	137-26-8	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

Toluene 108-88-3
Repro/Dev. Tox developmental toxicity , 1/1/1991

Canadian WHMIS Ingredient Disclosure List (IDL):
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Tetramethylthiuram disulfide	137-26-8 1 %
Toluene	108-88-3 1 %
Acetone	67-64-1 1 %
Methyl ethyl ketone	78-93-3 1 %

Component Analysis – Inventory:

Acrylonitrile-butadiene rubber (Mixture)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/ KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Polyphenol antioxidant (Trade Secret)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/ KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Sulfur (7704-34-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/ KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

Tetramethylthiuram disulfide (137-26-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/ KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

Toluene (108-88-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/ KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Acetone (67-64-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/ KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Methyl ethyl ketone (78-93-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/ KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

SECTION 16 – OTHER INFORMATION

HMIS Rating
Health: 2* Fire: 3 Reactivity: 0 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings
Health: 2 Fire: 3 Reactivity: 0 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes
New SDS: May 6, 2015

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Reference: *The information herein is presented in good faith and believed to be correct as of the date hereof. Information is based upon supplier issued material safety data sheets and may be subject to error. If apprised of changes, updated MSDS will be promptly issued. Users must make their own determination regarding the suitability of the product for their own purposes prior to use.*

Prepared By: Lexsuco 2010 Corporation