Safety Data Sheet

Section 01 - Identification

Product Identifier	Yellow marking paint
Other Means of Identification	None
Product Use and Restrictions on Use	Traffic lines on roads, paved surfaces for outside use.
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

Acute Toxicity-Dermal	Category 3
STOT-Single Exposure	Category 2
STOT-Repeated Exposure	Category 2
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1A

Physical Hazards

No known physical hazards.

Danger

Hazards Statements

H311 – Toxic in contact with skin.
H371 – May cause damage to the central nervous system through inhalation or ingestion.
H373 – May cause damage to organs through prolonged or repeated exposure.
H350 – May cause cancer.
H360 – May damage fertility or the unborn child.

Pictograms

Precautionary Statements

P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
P403 + P235 – Store in a well-ventilated place. Keep cool.
P405 – Store locked up.
P260 – Do not breathe mist, vapours or spray.
P271 – Use only outdoors or in a well-ventilated area.
P270 – Do not eat, drink or smoke when using this product.
P280 – Wear protective gloves, protective clothing, eye protection, and face protection.
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
P362 – Take off contaminated clothing and wash before reuse.
P308 + P313 – IF exposed or concerned: Get medical advice/attention.
P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Texanol	25265-77-4	1-5%	
Methanol	67-56-1	1-5%	
Lead Chromate	7758-97-6	5-10%	

Section 04 - First Aid Measures

Inhalation Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact / Absorption Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

Eye Contact Contact lenses should never be worn when working with this product. Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention. Avoid rubbing eyes.

Ingestion Do not induce vomiting if swallowed. Have victim rinse mouth with water. Seek immediate medical attention.

Additional Information Not Available

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media Water fog, carbon dioxide, dry chemical or foam.

Unsuitable Extinguishing Media Not Available

Specific Hazards Arising From the Chemical Not Available

Special Protective Equipment and Precautions for Fire-Fighters Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Further Information Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE.

Environmental Precautions	Prevent material from entering sewers.
Methods and Materials for Containment and Cleaning Up	Stop or reduce leak if safe to do so. Do not use sawdust or other combustible material to absorb material.

Section 07 - Handling and Storage

Precautions for Safe Handling	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
Conditions for Safe Storage	Keep containers covered when not in use. Store containers in a cool, well-ventilated area. Keep away open flames, sparks or heat. Do not allow product to freeze.
Incompatibilities	Not Available

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Methanol	ACGIH	TLV	200ppm (skin)
	ACGIH	STEL	250ppm (skin)
Lead Chromate	ACGIH	TLV	0.05mg/kg

Engineering Control(s)

Ventilation Requirements	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
Other	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face	Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.
Hand Protection	Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
Skin and Body Protection	Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.
Respiratory Protection	If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.
Thermal Hazards	Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Liquid
Colour	Viscous

Odour	Slight odour
Odour Threshold	Not Available

Property

pH	Not Available
Melting Point/Freezing Point	0°C
Initial Boiling Point and Boiling Range	64-100°C
Flash Point	> 93°C
Evaporation Rate	< 1
Flammability	Polymer film can burn, material can splatter above 100°C.
Upper Flammable Limit	Not Available
Lower Flammable Limit	Not Available
Vapour Pressure (mm Hg, 20°C)	> 17mmHg
Vapour Density (Air=1)	> 1
Relative Density	Not Available
Solubility(ies)	Not Available
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive Properties	Closed containers may explode if exposed to very high temperatures.
Specific Gravity (Water=1)	1.50-1.90 at 25°C
% Volatiles by Volume	Not Available
Formula	Not Available
Molecular Weight	Not Available

Section 10 - Stability and Reactivity

Reactivity	Polymer decomposition is dependant on temperature and time.
Stability	Considered stable.
Possibility of Hazardous Reactions	Not Available

Conditions to Avoid	Not Available
Incompatible Materials	Not Available
Hazardous Decomposition Products	Not Available

Section 11 - Toxicological Information

Acute Toxicity Estimate

Component	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Marking Paint (water based) – yellow	20,425 mg/kg	359 mg/kg	61 mg/L

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

Chronic Toxicity – Carcinogenicity

Component	IARC
Lead Chromate	Group 1: carcinogenic to humans

Skin Corrosion/Irritation	Moderately irritating
Ingestion	Harmful if ingested. May cause gastrointestinal as well as neurological effects.
Inhalation	Irritating to eyes, nose, throat and lungs. May cause headaches, dizziness, effects of drunkenness or other central nervous system effects.
Serious Eye Damage/Irritation	Irritating to eyes, can cause injury if abrasive pigments are rubbed into the eyes.
Respiratory or Skin Sensitization	A good number of studies provide evidence that inhaled hexavalent chromium compounds, like lead chromate, can cause asthma, and there are positive findings from several well-conducted bronchial challenge tests. The mechanism by which chromium causes asthma is not well-defined, but there is currently little evidence of immunological effects. Lead chromate is expected to cause skin sensitization based on comparison with other hexavalent chromium compounds.
Germ Cell Mutagenicity	There is insufficient information available to conclude that toluene is mutagenic.
Reproductive Toxicity	The animal information located does not suggest that methanol is a reproductive toxin. Methanol has produced fetotoxicity in rats and teratogenicity in mice exposed by inhalation to high concentrations that did not produce significant maternal toxicity.
STOT-Single Exposure	Irritating to nose, throat and lungs. May cause headaches, dizziness, effects of drunkenness or other central nervous system effects. Methyl alcohol may be fatal or cause blindness if swallowed. Effects due to ingestion may include headache, dizziness, drowsiness, metabolic acidosis, coma, seizures. Symptoms may be delayed. Damage of the liver and kidney
STOT-Repeated Exposure	May cause chronic lead toxicity with repeated ingestion. Repeated exposure by inhalation or absorption of methanol may cause systemic poisoning, brain disorders, impaired vision and blindness. Inhalation may worsen conditions such as emphysema or bronchitis. Repeated skin contact may cause dermal irritation, dryness and cracking. Effects of sub lethal doses may be nausea, headache, abdominal pain, vomiting and visual disturbances ranging from blurred vision to light sensitivity. Methanol is toxic by inhalation and ingestion. Inhalation of vapors may cause cyanosis, CNS effects, lethargy, loss of consciousness and death. The effects from inhalation may be delayed. Ingestion may cause malaise, CNS effects, discomfort, and death if not treated promptly.Ingestion of methanol has resulted in adverse effects

	(necrosis and haemorrhaging) in the brain. Medical conditions aggravated by exposure include: skin disorders and allergies, liver disorders and eye disease. Undocumented reports suggest that this product may form a siloxane polymer on the eyes, lungs, or other mucous membranes. Long term exposure to methanol has been associated with headaches, giddiness, conjunctivitis, insomnia and impaired vision. Dermal absorption of significant amounts of methanol resulted in death in several animal species. Toxic effects in animals exposed to methanol by inhalation include eye irritation, blindness and nasal discharge. Toxic effects observed in animals exposed to methanol by ingestion include CNS effects, gastrointestinal effects, anesthetic effects, damage to the optic nerve and acidosis.
Aspiration Hazard	May cause severe health effects (bronchial pneumonia or pulmonary edema) if swallowed and gets into lungs.
Synergistic Materials	In animals, high concentrations of methanol can increase the toxicity of other chemicals, particularly liver toxins like carbon tetrachloride. Ethanol significantly decreases the toxicity of methanol, because it competes for the same metabolic enzymes, and has been used to treat methanol poisoning.

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Methanol	EC_{50}(Green algae, 48hr): 3.01mg/L	LC_{50}(Pimephales promelas, 96 hrs): 28,100mg/L LC_{50}(Lepomis macrochirus, 96 hrs): 15,400mg/L	EC_{50}(Ceriodaphnia dubia, 48 hrs): 11mg/L
Texanol	Not Available	LC_{50}(Fathead minnow, 96hr): 30mg/L	LC_{50}(Daphnia magna, 96hr): ≥95mg/L

Biodegradability	Not Available
Bioaccumulation	Bioaccumulation of lead chromate may occur along the food chain.
Mobility	Not Available
Other Adverse Effects	Not Available

Section 13 – Disposal Considerations

Waste From Residues/Unused Products	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packaging Group	Not Regulated
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
Special Precautions	Not Available
Transport in Bulk	Not Available

TDG

Other	Secure containers (full and/or empty) with suitable hold down devises during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date August 27, 2015

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

1) CHEMINFO
2) eChemPortal
3) TOXNET
4) Transportation of Dangerous Goods Canada
5) HSDB
6) ECHA

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