

Material Safety Data Sheet

Issuing Date 09-May-2011	Revision Date PRODUCT AND COMPANY IDENTIFICATION	Revision Number 0
Product Name	NEW-BRUNSWICK LOW TEMPERATURE W/B YELLOW	
Product Code(s)	T-44-5241	
Recommended Use	Traffic paint	
Product Technology	W/B	
Supplier Address Ennis Paint Inc. 5910 North Central Expressway Suite 1050 Dallas TX 75206 T: 800.331.8118 800.331.8118 (For Technical Inquiries)		
Chemical Emergency Phone Number	Chemtrec 1-800-424-9300	
	2. HAZARDS IDENTIFICATION	
DANGER!		
	Emergency Overview	
Ha May adversely aff WARNING! This product contains a WARNING! This prod	Irmful if swallowed, inhaled, or absorbed through skin ect central nervous system, kidneys, blood and reproductive sys Cancer hazard a chemical known in the State of California to cause birth defects harm. uct contains a chemical known in the State of California to cause	tem. or other reproductive cancer.
Appearance Yellow	Physical State Emulsion.	Odor Slight, Ammonia
Potential Health Effects Acute Toxicity Eyes Skin Inhalation Ingestion Chronic Effects	May cause slight irritation. Harmful if absorbed through skin. May cause irritation. Harmful by inhalation. May cause ulceration and perforation of the nase Harmful if swallowed. Lead compounds may be absorbed by ingestion, by inhalation and through the damage kidney function, the blood forming system and the reproductive compounds can cause developmental damage. Very slowly eliminated poisoning can be cumulative. Crystalline silica (quartz) has been classified Agency for Research on Cancer (IARC) as a known human carcinoger dioxide has been classified by the International Agency for Research o possibly carcinogenic to humans (Group 2B) by inhalation. Chromium a compounds are currently classified by IARC and National Toxicology P carcinogens.	al septum. bugh the skin. Lead may e system. Inorganic lead from the body, so ified by the International n (Group 1). Titanium n Cancer (IARC) as and chromium Program as known

Main Symptoms	Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite indigestion, nausea, vomiting, constipation, sleep disturbances and overall weakness.
Aggravated Medical Conditions	Pre-existing eye disorders. Skin disorders. Respiratory disorders. Central nervous system. Blood disorders. Reproductive system.
Environmental Hazard	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Lead chromate	7758-97-6	7-13
Titanium dioxide	13463-67-7	5-10
Methyl alcohol	67-56-1	3-7
Toluene	108-88-3	3-7
Lead carboxylate	Proprietary	0.1-1
Ethyl benzene	100-41-4	<0.1
Benzene	71-43-2	<0.1

4. FIRST AID MEASURES			
General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.		
Eye Contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Call a physician immediately.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Consult a physician.		
Inhalation	Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.		
Ingestion	Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water.		
Notes to Physician	Treat symptomatically.		
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.		

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash Point	> 201°F / 93.8°C
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	None None
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health Hazard 2	Flammability 1	Instability 0	Physical and Chemical Hazards -		
HMIS	Health Hazard 2*	Flammability 1	Physical Hazard 0	Personal Protection -		
	6. AC	CIDENTAL RELEAS	E MEASURES			
Personal Precautions	Ensure a protective	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing.				
Environmental Precautio	Precautions Prevent product from entering drains. Do not flush into surface water or sanitary sewer sys Should not be released into the environment.			water or sanitary sewer system.		
Methods for Containmen	nt Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.			ad of liquid spill for later		
Methods for Cleaning Up Use personal protective equipment. Soak up with inert absorbent material. The mechanically and collect in suitable container for disposal. Keep in suitable containers for disposal.			nt material. Take up in suitable and closed			
	7	. HANDLING AND S	TORAGE			
Handling Ensure adeq and clothing. smoke when		dequate ventilation. Avoic ing. Remove and wash co hen using this product.	l breathing vapors or mists. A ontaminated clothing before re	void contact with skin, eyes e-use. Do not eat, drink or		
Storage	Keep cor container	Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.				

Revision Date

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	TWA: 0.1 mg/m ³ (vacated)	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Lead chromate 7758-97-6	TWA: 0.012 mg/m³ Cr TWA: 0.05 mg/m³ Pb	TWA: 5 μg/m ³ TWA: 50 μg/m ³ Pb Action Level: 2.5 μg/m ³ Cr Action Level: 30 μg/m ³ Pb Poison, See 29 CFR 1910.1025 (vacated) Ceiling: 0.1 mg/m ³ Ceiling: 0.1 mg/m ³ CrO3 applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect	IDLH: 100 mg/m ³ Pb IDLH: 15 mg/m ³ Cr(VI) TWA: 0.050 mg/m ³ Pb TWA: 0.001 mg/m ³ Cr
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³
Methyl alcohol 67-56-1	STEL = 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m ³ (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 325 mg/m ³ STEL: 250 ppm

Engineering Measures

Showers Eyewash stations Ventilation systems

Personal Protective Equipment Eye/Face Protection

Skin and Body Protection Respiratory Protection No special protective equipment required. No special protective equipment required. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Threshold pH	Yellow. No information available No information available.	Odor Physical State	Slight, Ammonia. Emulsion
Flash Point Decomposition Temperature Melting Point/Range	> 201°F / 93.8°C No information available. No information available	Autoignition Temperature Boiling Point/Boiling Range	No information available. No information available
Flammability Limits in Air	No information available.	Explosion Limits	No information available.
Solubility Vapor Pressure	No information available. No data available	Evaporation Rate Vapor Density	No information available No data available

Stability	Stable under recommended storage conditions.
Incompatible Products	None known based on information supplied.
Conditions to Avoid	None known based on information supplied.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx).
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Harmful by inhalation, in contact with skin and if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quartz	500 mg/kg (Rat)		
Ethyl benzene	= 3500 mg/kg (Rat)	= 15354 mg/kg (Rabbit)	= 17.2 mg/L (Rat) 4 h
Toluene	= 636 mg/kg (Rat)	12124 mg/kg (Rat)	26700 ppm (Rat)1 h
		8390 mg/kg (Rabbit)	
Benzene	1800 mg/kg (Rat)	-	13050 - 14380 ppm (Rat) 4 h
Titanium dioxide	> 10000 mg/kg (Rat)		> 6820 mg/m ³
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	83.2 mg/L (Rat)4 h
			64000 ppm (Rat) 4 h

Chronic Toxicity

Chronic Toxicity

Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system. Inorganic lead compounds can cause developmental damage. Very slowly eliminated from the body, so poisoning can be cumulative. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Chromium and chromium compounds are currently classified by IARC and National Toxicology Program as known carcinogens.

Chemical Name	ACGIH	IARC	NTP	OSHA
Lead chromate	A3	Group 2A	Known	Х
	A2	Group 1		
Titanium dioxide		Group 2B		Х
Toluene		Group 3	-	-
Lead carboxylate		Group 3	Reasonably Anticipated	Х
Ethyl benzene	A3	Group 2B		Х
Benzene	A1	Group 1	Known	Х

Target Organ Effects

Respiratory system. Central nervous system (CNS). Blood. Reproductive system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl alcohol	-	LC50 96 h: 13500 - 17600	EC50 = 39000 mg/L 25 min	-
		mg/L flow-through (Lepomis	EC50 = 40000 mg/L 15 min	
		macrochirus)	EC50 = 43000 mg/L 5 min	
		LC50 96 h: 18 - 20 mL/L		
		static (Oncorhynchus mykiss)		
		LC50 96 h: 19500 - 20700		
		mg/L flow-through		
		(Oncornynchus mykiss)		
		LC50.96 II. = 20200 IIIg/L		
		now-unough (Finephales		
		1 C50.96 h > 100 mg/L static		
		(Pimenhales prometas)		
Toluene	EC50: >433 mg/l	1 C50: 15 22-19 05 mg/l	$EC50 = 19.7 \text{ mg/l} \cdot 30 \text{ min}$	EC50 48 h ⁻ 5 46 - 9 83 mg/l
rolactic	Pseudokirchneriella	Pimenhales promelas 96 h	2000 10.7 mg/2 00 mm	Static (Daphnia magna)
	subcapitata 96 h	flow-through		EC50 48 h; = 11.5 mg/L
	EC50: 12.5 mg/L	LC50: 12.6 mg/L Pimephales		(Daphnia magna)
	Pseudokirchneriella	promelas 96 h static		
	subcapitata 72 h static	LC50: 5.89-7.81 mg/L		
		Oncorhynchus mykiss 96 h		
		flow-through		
		LC50: 14.1-17.16 mg/L		
		Oncorhynchus mykiss 96 h		
		static		
		LC50: 5.8 mg/L		
		Oncorhynchus mykiss 96 h		
		semi-static		
		LC50: 11.0-15.0 mg/L		
		statio		
		SidiiC I C50: 54 mg/L Onyzias latines		
		96 h static		
		LC50: 28.2 mg/L Poecilia		
		reticulata 96 h semi-static		
		LC50: 50.87-70.34 mg/L		
		Poecilia reticulata 96 h static		
Ethyl benzene	EC50 96 h: 1.7 - 7.6 mg/L	LC50 96 h: 11.0-18.0 mg/L	EC50 = 9.68 mg/L 30 min	EC50 48 h: 1.8 - 2.4 mg/L
	static (Pseudokirchneriella	static (Oncorhynchus mykiss)	EC50 = 96 mg/L 24 h	(Daphnia magna)
	subcapitata)	LC50 96 h: 7.55-11 mg/L	_	
	EC50 72 h: 2.6 - 11.3 mg/L	flow-through (Pimephales		
	static (Pseudokirchneriella	promelas)		
	subcapitata)	LC50 96 h: 9.1-15.6 mg/L		
	EC50 72 h: = 4.6 mg/L	static (Pimephales promelas)		
	(Pseudokirchneriella	LC50 96 h: = 32 mg/L static		
	subcapitata)	(Lepomis macrochirus)		
	ECOU 90 N: > 438 Mg/L	LUGU 90 II: = 4.2 mg/L semi-		
	(F Seudokii chilehellä	1 C50.96 h = 9.6 mg/L static		
	subcapitalaj	(Poecilia reticulata)		

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Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Benzene	EC50 72 h: = 29 mg/L	LC50 96 h: 10.7-14.7 mg/L		EC50 48 h: 8.76 - 15.6 mg/L
	(Pseudokirchneriella	flow-through (Pimephales		Static (Daphnia magna)
	subcapitata)	promelas)		EC50 48 h: = 10 mg/L
		LC50 96 h: 22330-41160		(Daphnia magna)
		µg/L static (Pimephales		
		promelas)		
		LC50 96 h: 70000-142000		
		µg/L static (Lepomis		
		macrochirus)		
		LC50 96 h: = 22.49 mg/L		
		static (Lepomis macrochirus)		
		LC50 96 h: = 28.6 mg/L static		
		(Poecilia reticulata)		
		LC50 96 h: = 5.3 mg/L flow-		
		through (Oncorhynchus		
		mykiss)		

Chemical Name	Log Pow
Methyl alcohol	-0.77
Toluene	2.65
Ethyl benzene	3.118
Benzene	1.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal MethodsThis material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR
261). This material could become a hazardous waste if it is mixed with or otherwise comes in
contact with a hazardous waste, if chemical additions are made to this material, or if the
material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the
altered material is a hazardous waste. Consult the appropriate state, regional, or local
regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol - 67-56-1		Included in waste stream: F039		U154
Toluene - 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		U220
Ethyl benzene - 100-41-4		Included in waste stream: F039		
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172	= 0.5 mg/L regulatory level	U019

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene - 108-88-3			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution	

Chemical Name	California Hazardous Waste
Lead chromate	Toxic
	Corrosive
	Ignitable
Methyl alcohol	Toxic
	Ignitable
Toluene	Toxic
	Ignitable
Lead carboxylate	Toxic
Ethyl benzene	Toxic
	Ignitable
Benzene	Toxic
	Ignitable

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated.

15. REGULATORY INFORMATION

International Inventories

T	S	С	Α
D	S	L	

All components are listed on the TSCA Inventory. All components are listed either on the DSL or NDSL.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Lead chromate	7758-97-6	7-13	0.1
Methyl alcohol	67-56-1	5-10	1.0
Toluene	108-88-3	3-7	1.0
Lead carboxylate		0.1-1	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Lead chromate		Х		
Toluene	1000 lb	Х	Х	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Toluene	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Methyl alcohol	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Quartz	14808-60-7	Carcinogen
Lead chromate	7758-97-6	Carcinogen
		Developmental
		Female Reproductive
		Male Reproductive
Ethyl benzene	100-41-4	Carcinogen
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen
		Developmental
		Male Reproductive
Lead carboxylate		Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Quartz	Х	Х	Х	-	Х
Lead chromate	X	X	Х	Х	Х
Methyl alcohol	Х	Х	Х	Х	Х
Ethyl benzene	Х	Х	Х	Х	Х
Toluene	Х	Х	Х	Х	Х
Benzene	Х	Х	Х	Х	Х
Titanium dioxide	Х	Х	Х	-	Х

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Quartz		Mexico: TWA= 0.1 mg/m ³
Lead chromate	A1	Mexico: TWA= 0.01 mg/m ³
		Mexico: TWA= 0.05 mg/m ³
		Mexico: TWA= 0.15 mg/m ³
		Mexico: TWA= 0.5 mg/m ³
Toluene		Mexico: TWA= 50 ppm
		Mexico: TWA= 188 mg/m ³
Titanium dioxide		Mexico: TWA= 10 mg/m ³
		Mexico: STEL= 20 mg/m ³
Methyl alcohol		Mexico: TWA= 200 ppm
		Mexico: TWA= 260 mg/m ³
		Mexico: STEL= 250 ppm
		Mexico: STEL= 310 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D1B Toxic materials D2A Very toxic materials D2B Toxic materials



Chemical Name	NPRI
Lead chromate	X
Toluene	X
Methyl alcohol	X

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
Issuing Date Revision Date	09-May-2011
Revision Note	Initial Release.

General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

End of Safety Data Sheet