# ENNIS-FLINT A Traffic Safety Solutions Company

# **Material Safety Data Sheet**

Issuing Date 04-May-2011 Revision Date 03-Aug-2012 Revision Number 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Wolverine Low Temp Yellow L/F Waterborne Paint

Product Code(s) 985352

Recommended Use Traffic paint

Product Technology W/B

**Supplier Address** 

Ennis-Flint

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**

Harmful by inhalation, in contact with skin and if swallowed
Causes central nervous system depression
May cause skin, eye, and respiratory tract irritation
May adversely affect liver and kidney

Cancer hazard

WARNING! This product contains a chemical known in the State of California to cause cancer.

Appearance YellowPhysical State Emulsion.Odor Slight, Ammonia

**Potential Health Effects** 

Principle Routes of Exposure Eye contact. Skin contact. Inhalation.

**Acute Toxicity** 

**Eyes** May cause irritation.

**Skin** Harmful if absorbed through skin. May cause irritation.

Inhalation Harmful by inhalation. May cause central nervous system depression with nausea,

headache, dizziness, vomiting, and incoordination. Sanding and grinding dust may be

harmful if inhaled.

**Ingestion** Harmful if swallowed. May cause blindness if swallowed. May cause additional affects as

listed under "Inhalation".

**Chronic Effects** Inhalation, ingestion, or skin absorption of methanol can cause blindness. This product

> contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as

possibly carcinogenic to humans (Group 2B) by inhalation.

Respiratory disorders. Lungs. Skin disorders. Liver disorders. Kidney disorders. Central **Aggravated Medical Conditions** 

nervous system. Pre-existing eye disorders.

Interactions with Other Chemicals Use of alcoholic beverages may enhance toxic effects.

**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 %
Limestone	1317-15-3	30-60
Titanium dioxide	13463-67-7	3-7
Methyl alcohol	67-56-1	3-7
Quartz	14808-60-7	0.1-1
2-Butoxvethanol	111-76-2	<0.1

## 4. FIRST AID MEASURES

**Eve Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

**Skin Contact** Wash off immediately with plenty of water. Remove and wash contaminated clothing before

re-use. If symptoms persist, call a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink Ingestion

plenty of water. If symptoms persist, call a physician.

**Notes to Physician** Treat symptomatically.

# 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** None. Sensitivity to Static Discharge

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 1 Flammability 1 Instability 0 Physical and Chemical Hazards HMIS Health Hazard 2\* Flammability 1 Physical Hazard 0 Personal Protection X

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin,

eyes and clothing.

**Environmental Precautions** Prevent product from entering drains. Do not flush into surface water or sanitary sewer

system.

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Use personal protective equipment. Dike far ahead of liquid spill for later disposal. Soak up

with inert absorbent material. Clean up promptly by sweeping or vacuum. Keep in suitable

and closed containers for disposal.

# 7. HANDLING AND STORAGE

Handling Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid contact with skin, eyes

and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or

smoke when using this product.

Storage Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled

containers. Keep out of the reach of children.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Limestone 1317-15-3	-	- TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction	
Titanium dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
Methyl alcohol 67-56-1	STEL = 250 ppm TWA: 200 ppm TWA: 260 mg/m³ (vacated) TWA: 260 mg/m³ (vacated) TWA: 260 mg/m³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m³ (vacated) S*		IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m³ STEL: 325 mg/m³ STEL: 250 ppm
Quartz 14808-60-7	, , , , , , , , , , , , , , , , , , , ,		IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust
Trade Secret	Trade Secret  TWA: 5 mg/m³, as oil mist, mineral  STEL: TWA: 10 mg/m³, as oil mist, mineral  TWA: 5 mg/m³, as oil mis mineral		
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d

962 (11th Cir., 1992).

Engineering Measures Showers

Eyewash stations Ventilation systems

**Personal Protective Equipment** 

Eye/Face Protection
Skin and Body Protection
Respiratory Protection

Safety glasses with side-shields.

Protective gloves.

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** Do not eat, drink or smoke when using this product. Remove and wash contaminated

clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceYellow.OdorSlight, Ammonia.Odor ThresholdNot applicablePhysical StateEmulsion

pH Not applicable

Flash Point > 201 °F / 93.8 °C Autoignition Temperature Not applicable Boiling Point/Boiling Range Not applicable

Melting Point/Range Not applicable

Flammability Limits in Air Not applicable

SolubilityNot applicableEvaporation RateNot applicableVapor PressureNot applicableVapor DensityNot applicable

VOC (g/l) < 100

# 10. STABILITY AND REACTIVITY

**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.

## **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Titanium dioxide	> 10000 mg/kg (Rat)		> 6820 mg/m <sup>3</sup>	
Methyl alcohol	5628 mg/kg ( Rat )	15800 mg/kg(Rabbit)	83.2 mg/L (Rat) 4 h 64000 ppm (Rat) 4 h	
Quartz	500 mg/kg (Rat)			
2-Butoxyethanol	= 470 mg/kg ( Rat )	= 400 mg/kg(Rabbit) = 2270 mg/kg(Rat)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h	

## **Chronic Toxicity**

### **Chronic Toxicity**

Inhalation, ingestion, or skin absorption of methanol can cause blindness. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

## Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
Quartz	A2	Group 1	Known	X
2-Butoxyethanol	A3	Group 3		

# **Target Organ Effects**

Liver. Kidney. Respiratory system. Central nervous system (CNS).

# 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 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 18 - 20 mL/L static (Oncorhynchus mykiss) LC50 96 h: 19500 - 20700 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 28200 mg/L flow-through (Pimephales promelas) LC50 96 h: > 100 mg/L static (Pimephales promelas)	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	-
2-Butoxyethanol		LC50 96 h: = 1490 mg/L static (Lepomis macrochirus) LC50 96 h: = 2950 mg/L (Lepomis macrochirus)		EC50 24 h: 1698 - 1940 mg/L (Daphnia magna) EC50 48 h: > 1000 mg/L (Daphnia magna)
	Chemical Name		Log Pow	
Methyl alcohol 2-Butoxyethanol			-0.77 0.81	

# 13. DISPOSAL CONSIDERATIONS

# **Waste Disposal Methods**

This 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:		U154
		F039		

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methyl alcohol	Toxic
·	Ignitable

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA All components are listed on the TSCA Inventory.

DSL 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 %
Methyl alcohol	67-56-1	3-7	1.0
2-Butoxyethanol	111-76-2	<0.1	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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **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
Methyl alcohol	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ

## **U.S. State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	Carcinogen
Methyl alcohol	67-56-1	Developmental
Quartz	14808-60-7	Carcinogen

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Titanium dioxide	X	X	X	-	X
Methyl alcohol	X	Х	Х	X	X
Quartz	X	X	X	-	Х
2-Butoxyethanol	X	X	Х	Х	Х

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Titanium dioxide		Mexico: TWA= 10 mg/m <sup>3</sup> Mexico: STEL= 20 mg/m <sup>3</sup>
Methyl alcohol		Mexico: TWA= 200 ppm Mexico: TWA= 260 mg/m³ Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m³
Quartz		Mexico: TWA= 0.1 mg/m <sup>3</sup>
2-Butoxyethanol		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m³

### 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



Component	NPRI
Methyl alcohol 67-56-1 ( 3-7 )	X
2-Butoxyethanol	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 Date04-May-2011Revision Date03-Aug-2012

Revision Note Name change, (M)SDS sections updated: 1, 9

### **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**