

Material Safety Data Sheet

Issuing Date 23-Aug-2011 Revision Date 23-Aug-2011 Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Duraset 3 White

Product Code(s) 999463W

UN-Number UN1263

Recommended Use Traffic paint

Product Technology MMA

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

Flammable liquid Irritating to respiratory system and skin

May produce an allergic reaction

Cancer hazard

WARNING! This product contains a chemical known in the State of California to cause cancer and birth defects or other reproductive harm.

Appearance Milky whitePhysical State Viscous liquid.Odor Acrid fruity

Potential Health Effects

Acute Toxicity

Eyes May cause irritation.

Skin Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

Inhalation Irritating to respiratory system.

Ingestion Ingestion may cause irritation to mucous membranes.

Chronic Effects Repeated contact may cause allergic reactions in very susceptible persons. This product

contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. 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.

Aggravated Medical Conditions Skin disorders. Respiratory disorders.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS-No	Weight %
Quartz	14808-60-7	15-40
Methyl Methacrylate	80-62-6	15-40
2-Ethylhexyl acrylate	103-11-7	10-30
Titanium dioxide	13463-67-7	7-13
Methyl pyrrolidone	872-50-4	0.1-1
Ethyl benzene	100-41-4	<0.1

4. FIRST AID MEASURES

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

irritation persists, call a physician.

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 to fresh air. If not breathing, give artificial respiration. Administer oxygen if breathing is

difficult. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Seek

immediate medical attention/advice.

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

plenty of water. Call a physician immediately.

Notes to Physician Treat symptomatically. May cause sensitization of susceptible persons.

Protection of First-aiders Remove all sources of ignition. Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Flammable Properties Flammable liquid.

Flash Point 55.4°F / 13°C

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Explosion Data

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge Yes.

Specific Hazards Arising from the

Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or

confined areas (sewers, basements, tanks).

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 3 Instability 2 Physical and Chemical

Hazards -

HMIS Health Hazard 2* Flammability 3 Physical Hazard 2 Personal Protection X

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use personal protective equipment. 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. Dike far ahead of liquid spill for later

disposal.

Methods for Cleaning Up Dam up. Use personal protective equipment. Soak up with inert absorbent material (e.g. sand,

silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable

container for disposal.

Other Information Water spray may reduce vapor; but may not prevent ignition in closed spaces.

7. HANDLING AND STORAGE

Handling Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of

ignition. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or

mists.

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled

containers. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz	TWA: 0.025 mg/m³respirable fraction	TWA: 0.1 mg/m³ (vacated)	IDLH: 50 mg/m ³ respirable dust
14808-60-7			TWA: 0.05 mg/m ³ respirable dust
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m³total dust	IDLH: 5000 mg/m ³
13463-67-7	_	(vacated) TWA: 10 mg/m³total dust	-
Methyl Methacrylate	STEL: 100 ppm	TWA: 100 ppm	IDLH: 1000 ppm
80-62-6	TWA: 50 ppm	TWA: 410 mg/m ³	TWA: 100 ppm
		(vacated) TWA: 100 ppm	TWA: 410 mg/m ³
		(vacated) TWA: 410 mg/m ³	_

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.

Engineering Measures Showers. Eyewash stations. Explosion proof ventilation systems.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.
Skin and Body Protection Wear protective gloves/clothing.
Respiratory Protection If exposure limits are exceeded or

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 When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-

use. Wash thoroughly after handling. Provide regular cleaning of equipment, work area and

clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceMilky white.OdorAcrid fruity .Odor ThresholdNo information availablePhysical StateViscous liquid

pH No information available.

Flash Point 55.4°F / 13°C Autoignition Temperature No information available.

Decomposition Temperature No information available.

Boiling Point/Boiling Range No information available

Melting Point/Range No information available

Flammability Limits in Air No information available. Explosion Limits No information available.

Solubility No information available. Evaporation Rate No information available

Vapor PressureNo data availableVapor DensityNo data available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Alkaline. Amines. Oxidizing or reducing agents. Sulfur compounds.

Conditions to Avoid Excessive heat.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO₂).

Hazardous Polymerization Polymerization may occur when exposed to excessive heating and incompatibles.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Irritating to respiratory system and skin.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl pyrrolidone	= 3598 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 3.1 mg/L (Rat) 4 h
		= 2500 mg/kg (Rat)	
Quartz	500 mg/kg (Rat)		
Titanium dioxide	> 10000 mg/kg (Rat)		> 6820 mg/m ³
2-Ethylhexyl acrylate	= 4435 mg/kg (Rat)	= 7522 mg/kg (Rabbit)	
Methyl Methacrylate	= 7872 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 400 ppm (Rat) 1 h
			= 4632 ppm (Rat) 4 h

Chronic Toxicity

Chronic Toxicity Repeated contact may cause allergic reactions in very susceptible persons. This product

contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. 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
Quartz	A2	Group 1	Known	X
Methyl Methacrylate		Group 3		
2-Ethylhexyl acrylate		Group 3		
Titanium dioxide		Group 2B		X
Ethyl benzene	A3	Group 2B	-	-

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3: Not Classifiable as to its Carcinogenicity to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Target Organ Effects Respiratory 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 Methacrylate	EC50 96 h: = 170 mg/L	LC50 96 h: 125.5-190.7 mg/L		EC50 48 h: = 69 mg/L
	(Pseudokirchneriella	static (Pimephales promelas)		(Daphnia magna)
	` subcapitata)	LC50 96 h: 153.9-341.8 mg/L		, ,
	, ,	static (Lepomis macrochirus)		
		LC50 96 h: 170-206 mg/L		
		flow-through (Lepomis		
		macrochirus)		
		LC50 96 h: 243-275 mg/L		
		flow-through (Pimephales		
		promelas)		
		LC50 96 h: 326.4-426.9 mg/L		
		static (Poecilia reticulata)		
		LC50 96 h: > 79 mg/L flow-		
		through (Oncorhynchus		
		mykiss)		
		LC50 96 h: > 79 mg/L static		
		(Oncorhynchus mykiss)		
2-Ethylhexyl acrylate	EC50 72 h: = 44 mg/L	LC50 48 h: = 23 mg/L	EC50 > 10000 mg/L 30 min	EC50 48 h: = 17.45 mg/L
	(Desmodesmus subspicatus)	(Leuciscus idus melanotus)		(Daphnia magna)
	EC50 96 h: = 47 mg/L			
	(Desmodesmus subspicatus)			
Methyl pyrrolidone	EC50 72 h: > 500 mg/L	LC50 96 h: = 1072 mg/L static		EC50 48 h: = 4897 mg/L
	(Desmodesmus subspicatus)	(Pimephales promelas)		(Daphnia magna)
		LC50 96 h: = 1400 mg/L static		
		(Poecilia reticulata)		
		LC50 96 h: = 4000 mg/L static		
		(Leuciscus idus)		
		LC50 96 h: = 832 mg/L static		
		(Lepomis macrochirus)		
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)		
	EC50 96 h: > 438 mg/L	LC50 96 h: = 4.2 mg/L semi-		
	(Pseudokirchneriella	static (Oncorhynchus mykiss)		
	subcapitata)	LC50 96 h: = 9.6 mg/L static		
		(Poecilia reticulata)		

Chemical Name	Log Pow
Methyl Methacrylate	0.7
2-Ethylhexyl acrylate	4.64
Methyl pyrrolidone	-0.46
Ethyl benzene	3.118

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl Methacrylate - 80-62-6	U162	Included in waste stream:		U162
		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 Methacrylate	Toxic
	Ignitable
Ethyl benzene	Toxic
·	Ignitable

14. TRANSPORT INFORMATION

DOT

UN-Number UN1263
Proper shipping name Paint
Hazard Class 3
Subsidiary Class None
Packing Group II

Description UN1263,Paint,3,PG II

Emergency Response Guide 128

Number

TDG

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II

Description UN1263,PAINT,3,PG II

MEX

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II

Description UN1263 Paint,3,II

ICAO

UN-Number UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group II

Description UN1263,Paint,3,PG II

IATA

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II
ERG Code 3L

Description UN1263,Paint,3,PG II

IMDG/IMO

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II
EmS No. F-E, S-E

Description UN1263, Paint,3,PG II, FP 13C

RID

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II
Classification Code F1

Description UN1263 Paint,3,II

ADR

UN-NumberUN1263Proper Shipping NamePaintHazard Class3Packing GroupIIClassification CodeF1

Description UN1263 Paint,3,II

ADN

UN-No UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II
Classification Code F1

Special Provisions 163, 640C, 650 Description UN1263 Paint,3,II

Hazard Labels 3
Limited Quantity LQ6
Ventilation VE01

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 pyrrolidone	872-50-4	0.1-1	1.0
Methyl Methacrylate	80-62-6	15-40	1.0

SARA 311/312 Hazard Categories

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

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
Methyl Methacrylate	1000 lb			X

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
Ethyl benzene	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Methyl Methacrylate	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Methyl pyrrolidone	872-50-4	Developmental
Ethyl benzene	100-41-4	Carcinogen
Quartz	14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Methyl pyrrolidone	X	X	X		
Ethyl benzene		X			Χ
Quartz	X	X	X	-	X
Titanium dioxide	X	X	X	-	X
2-Ethylhexyl acrylate	X	X	X		Χ
Methyl Methacrylate	X	X	X	X	X

International Regulations

Chemical Name	Carcinogen Status	atus Exposure Limits	
Ethyl benzene		Mexico: TWA 100 ppm	
·		Mexico: TWA 435 mg/m ³	
		Mexico: STEL 125 ppm	
		Mexico: STEL 545 mg/m ³	
Quartz		Mexico: TWA= 0.1 mg/m ³	
Limestone		Mexico: TWA 10 mg/m ³	
		Mexico: STEL 20 mg/m ³	
Titanium dioxide		Mexico: TWA= 10 mg/m ³	
		Mexico: STEL= 20 mg/m ³	
Methyl Methacrylate		Mexico: TWA 100 ppm	
·		Mexico: TWA 410 mg/m ³	
		Mexico: STEL 125 ppm	
		Mexico: STEL 510 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

B2 Flammable liquid D2A Very toxic materials D2B Toxic materials



16. OTHER INFORMATION

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110

1-800-572-6501

Issuing Date23-Aug-2011Revision Date23-Aug-2011

Revision Note (M)SDS sections updated. 14.

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
