

# SAFETY DATA SHEET

# **SECTION 1 - Chemical Product and Company Information**

Product Name: PALLET MARKING PAINT Product Code: 48FORTY

Manufactured by: 24- Hour Emergency (Spill, Leak, Exposure or Accident):

Gemini Coatings INFOTRAC 800-535-5053

2300 Holloway Drive Outside USA, Call Collect 1-352-323-3500

El Reno, OK 73036 800-262-5710

24- Hour Emergency HAZMAT Response and MSDS Help:

EMI 800-510-8510

Product Use: A protective and/or decorative finish or accompanying product (reference label or product data sheet for more information).

Not recommended for: A protective and/or decorative finish or accompanying product (reference label or product data sheet for more information).

## **SECTION 2 - Hazards Identification**

# **GHS Ratings:**

Flammable gas	1	Flammable gas class 1
Gas under pressure	Compressed g	Entirely gaseous at -50°C
Flammable liquid	1	Flash point < 23°C and initial boiling point <= 35°C (95°F)
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score:
F	0.4	>= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitizer	1	Skin sensitizer
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1A	Based on human evidence
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity? 20.5 mm2/s at 40° C.

**GHS Precautions** 

GHS Hazards	
-------------	--

H224 Extremely flammable liquid and vapour precautions have been read and H280 Contains gas under pressure; Do not handle until all safety precautions have been read and understood	
H280 Contains das under pressure: understood	
and of other	
may explode if heated P210 Keep away from heat/sparks/open	
H304 May be fatal if swallowed and flames/hot surfaces – No smoking	
enters airways P233 Keep container tightly closed	
H315 Causes skin irritation P240 Ground/bond container and receiving	a
H317 May cause an allergic skin equipment	
reaction P241 Use explosion-proof	
H319 Causes serious eye irritation   electrical/ventilating/light/mixers/equ	ipm
H340 May cause genetic defects ent	
H350 May cause cancer P242 Use only non-sparking tools	
H360 May damage fertility or the P243 Take precautionary measures again	st
unborn child static discharge	٠.
P261 Avoid breathing	

dust/fume/gas/mist/vapours/spray

P264	Wash any exposed skin thoroughly
P272	after handling Contaminated work clothing should not
P280	be allowed out of the workplace Wear protective gloves/protective
P281	clothing/eye protection/face protection Use personal protective equipment as
P321	required Specific treatment (see First Aid
P331	section on this label)
P362	Do NOT induce vomiting
	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P377	Leaking gas fire – do not extinguish unless leak can be stopped safely
P381	Eliminate all ignition sources if safe to do so
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P35	IF ON SKIN (or hair): Remove/Take off
3	immediately all contaminated clothing.
D005 - D054 - D00	Rinse skin with water/shower
P305+P351+P33 8	IF IN EYES: Rinse continuously with
0	water for several minutes. Remove
	contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical
1 30011 313	advice/attention
P332+P313	If skin irritation occurs: Get medical
1 002 1 0 10	advice/attention
P333+P313	If skin irritation or a rash occurs: Get
	medical advice/attention
P337+P313	Get medical advice/attention
P370+P378	In case of fire: Use the NFPA Class B
D402	extinguisher for extinction
P403	Store in a well ventilated place
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P410+P403	Protect from sunlight. Store in a well ventilated place
P501	Do not flush to sewer, watershed or
	waterway. Dispose of product in
	accordance with applicable local,
	county, state and federal regulations.

Signal Word: Danger



SECTION 3 - Composition/Information on Ingredients			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits

Dranana	14000 mm TMA: 4000	L Coo Annondiv E. Minimod	INIOCI I: 1000 mmm
Propane	1000 ppm TWA; 1800	See Appendix F: Minimal	NIOSH: 1000 ppm
4-98-6 mg/m3 TWA		Oxygen Content,	TWA; 1800 mg/m3
17%		explosion hazard	TWA
TOLUENE	DLUENE 200 ppm TWA		NIOSH: 100 ppm
108-88-3			TWA; 375 mg/m3 TWA
10% - 20%			150 ppm STEL; 560
1676 2676			mg/m3 STEL
ETUNA ACETATE	400 mm TMA: 4400 mm m/m 2	400 mm TM/A	
ETHYL ACETATE	400 ppm TWA; 1400 mg/m3	400 ppm TWA	NIOSH: 400 ppm
141-78-6	TWA		TWA; 1400 mg/m3
15%			TWA
ISOBUTYL ACETATE	150 ppm TWA; 700 mg/m3	150 ppm STEL (listed	NIOSH: 150 ppm
110-19-0	TWA	under Butyl acetates, all	TWA; 700 mg/m3 TWA
15%		isomers)	, 11 3
1.070		50 ppm TWA (listed	
		under Butyl acetates, all	
		isomers)	1
Butane		1000 ppm STEL	NIOSH: 800 ppm
106-97-8		(explosion hazard, listed	TWA; 1900 mg/m3
8%		under Butane, isomers)	TWA
Titanium dioxide	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	NIOSH: 2.4 mg/m3
13463-67-7		· · · · · · · · · · · · · · · · · · ·	TWA (CIB 63, fine);
5%			0.3 mg/m3 TWA (CIB
370			
			63, ultrafine, including
			engineered nanoscale)
Nitrocellulose			
9004-70-0			
4%			
DOA PLASTICIZER			
103-23-1			
3%			
	1000 ppm TWA: 1000	1000 nnm CTFI	NIOCH: 1000 ppm
Ethyl alcohol	1000 ppm TWA; 1900	1000 ppm STEL	NIOSH: 1000 ppm
64-17-5	mg/m3 TWA		TWA; 1900 mg/m3
2%			TWA
Isopropyl alcohol	400 ppm TWA; 980 mg/m3	400 ppm STEL	NIOSH: 400 ppm
67-63-0	TWA	200 ppm TWA	TWA; 980 mg/m3 TWA
2%			500 ppm STEL; 1225
			mg/m3 STEL
Propylene glycol	1		
monomethyl ether acetate			
108-65-6			
1%			
2-BUTOXYETHANOL	50 ppm TWA; 240 mg/m3	20 ppm TWA	NIOSH: 5 ppm TWA;
111-76-2	TWA		24 mg/m3 TWA
0.9%			
2.3.3	Į.		

## **SECTION 4 - First Aid Measures**

#### Inhalation:

Remove exposed individual to fresh air and assist breathing if necessary. Seek medical attention.

## **Eye Contact:**

Flush eyes with lukewarm water for 15 minutes. Seek medical attention immediately.

## Skin:

Remove contaminated clothing, wash area immediately with soap and water. See physician if irritation persists. **Ingestion:** 

Rinse mouth out immediately. Drink 1 or 2 glasses of water to dilute. <u>DO NOT</u> induce vomiting. Contact physician or poison control center immediately.

# **SECTION 5 - Fire Fighting Measures**

Alcohol Foam, CO2, Dry Chemical

Do not puncture or incinerate container. Exposure to heat or prolonged exposure to sun may cause container to

burst. Do not expose to heat or store at temperatures above 120 degrees F. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, sparks, heaters, smoking, electrical motors or static discharge distant from handling pot.

Burning may produce oxides of nitrogen and carbon.

Clear fire area of unprotected personnel. Do not enter confined space without helmet, face shield, bunker coat, gloves, rubber boots and a positive pressure NIOSH-approved self-contained breathing apparatus. A water stream can scatter flames. A spray of water may be used to cool closed containers to prevent pressure buildup and possible auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

## **SECTION 6 - Accidental Release Measures**

Stay upwind and away from spill or leak unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for clean up. Cover with inert material to reduce fumes. Keep out of drains, sewer or waterways.

If large spill occurs, alert spill response teams. Contact fire authorities. Notify local health and pollution control agencies.

## **SECTION 7- Handling and Storage**

#### Handling:

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazardous precautions given in thes sheet must be observed.

## Storage:

Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. DO NOT SMOKE in or near storage areas.

SECTION 8 - Exposure Controls/Personal Protection			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Propane 74-98-6	1000 ppm TWA; 1800 mg/m3 TWA	See Appendix F: Minimal Oxygen Content, explosion hazard	NIOSH: 1000 ppm TWA; 1800 mg/m3 TWA
TOLUENE 108-88-3		20 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL
ETHYL ACETATE 141-78-6	400 ppm TWA; 1400 mg/m3 TWA	400 ppm TWA	NIOSH: 400 ppm TWA; 1400 mg/m3 TWA
ISOBUTYL ACETATE 110-19-0	150 ppm TWA; 700 mg/m3 TWA	150 ppm STEL (listed under Butyl acetates, all isomers) 50 ppm TWA (listed under Butyl acetates, all isomers)	NIOSH: 150 ppm TWA; 700 mg/m3 TWA
Butane 106-97-8		1000 ppm STEL (explosion hazard, listed under Butane, isomers)	NIOSH: 800 ppm TWA; 1900 mg/m3 TWA
Titanium dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	NIOSH: 2.4 mg/m3 TWA (CIB 63, fine); 0.3 mg/m3 TWA (CIB 63, ultrafine, including engineered nanoscale)
Nitrocellulose 9004-70-0			
DOA PLASTICIZER 103-23-1			
Ethyl alcohol 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

Isopropyl alcohol 67-63-0	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL
Propylene glycol monomethyl ether acetate 108-65-6			
2-BUTOXYETHANOL 111-76-2	50 ppm TWA; 240 mg/m3 TWA	20 ppm TWA	NIOSH: 5 ppm TWA; 24 mg/m3 TWA

Use local exhaust as required to control vapor concentrations.

Avoid prolonged or repeated breathing of vapors.

#### **Respiratory Protection:**

If exposure exceeds TLV or PELs, use NIOSH approved respirator to prevent overexposure.

#### **Skin Protection:**

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

#### **Eve Protection:**

Wear splash proof googles and face shield if there is a likelihood of contact with eyes.

#### **Hygenic Practices**

Wash hands thoroughly before eating or using the restroom. Remove contaminated clothing immediately and do not wear again until it has been properly laundered.

# **SECTION 9 - Physical and Chemical Properties**

Vapor Density Heavier Than Air

Evaporation Rate Faster than Butyl
Acetate

Boiling range: 34 - 3000°C Melting point: N/A

Freezing point: N/A Flash point: -139°F,-95°C

Flammability: N/A Explosive Limits: N/A

Autoignition temperature: 170°C Decomposition temperature: N/A

Relative Density: N/A

Vapor Pressure N/A

Odor threshold: N/A pH: N/A SPECIFIC GRAVITY 0.8125 Solubility: N/A

Partition coefficient (n- N/A Viscosity: N/A

octanol/water):

Grams VOC less water: N/A

% VOLUME VOLATILE (VOC) 88.3081

Lbs VOC/Gallon Solids 46.4712 VOLATILE WT% 79.3182

SOLIDS VOL% 11.5165 **DENSITY (Lb/Gal)** 6.7657

**SPREAD @ 1 MIL** 184.7244 **HAPS (lbs/gl)** 1.0755

Appearance Sprayed Liquid Aerosol Odor N/A

Physical State Liquid Aerosol Material VOC (g/l) 641.3122
Coating VOC (g/l) 642.4392 Material VOC (Lb/Gl) 5.3519

## **SECTION 10 - Stability and Reactivity**

Stability: Stable under normal conditions.

Coating VOC (Lb/GI) 5.3613

Materials to Avoid: Strong oxidizing agents, strong alkalines, strong mineral acids.

Conditions to avoid: high heat, sparks, flames, static discharge.

Hazardous Decomposition: Oxidation may produce carbon and nitrogen oxides.

Hazardous polymerization will not occur.

#### **SECTION 11 - Toxicological Information**

## **Mixture Toxicity**

Inhalation Toxicity LC50: 75mg/L

## **Component Toxicity**

108-88-3	TOLUENE Oral LD50: 2,600 mg/kg (Rat) Inhalation LC50: 13 mg/L (Rat)
141-78-6	ETHYL ACETATE Inhalation LC50: 4,000 ppm (Rat)
67-63-0	Isopropyl alcohol Oral LD50: 1,870 mg/kg (Rat) Dermal LD50: 4,059 mg/kg (Rabbit)
108-65-6	Propylene glycol monomethyl ether acetate Dermal LD50: 5 g/kg (Rabbit)
111-76-2	2-BUTOXYETHANOL Oral LD50: 470 mg/kg (Rat) Dermal LD50: 435 mg/kg (Rabbit) Inhalation LC50: 486 ppm

Primary Routes of Entry: Inhalation, Skin Contact, Eyes, Ingestion

## Skin:

Skin contact can cause redness, dryness or rash. Prolonged contact can cause irritation, dry skin, cracks, and dermititis.

#### Ingestion:

Can cause vomiting, nausea, diarrhea, and gastrointestinal irritation.

#### Inhalation:

Excessive inhalation of vapors can cause nasal and repiratory irritation, dizziness, weakness, fatigue, nausea, headache possible unconsciousness and even asphyxiation. High vapor concentrations or porlonged breathing of lower concentrations may result in damage to the liver, kidneys, lungs and blood forming organs. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

#### Eyes:

Can cause irritation, redness, tearing and blurred vision.

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	% Weight	Carcinogen Rating
106-97-8	Butane	8%	Butane: EU REACH: Present (C) (containing >=0.1% Butadiene)
13463-67-7	Titanium dioxide	5%	Titanium dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
64-17-5	Ethyl alcohol	2%	Ethyl alcohol: IARC: Human carcinogen OSHA: listed

# **SECTION 12 - Ecological Information**

#### **Ecological Information:**

Uncontrolled release of the product may result in contamination of air, ground, waterways and/or sewers.

**Component Ecotoxicity** 

TOLUENE LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old,

EPA); LC50 96 h Pimephales promelas 12.6 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static] (EPA); LC50 96 h Lepomis macrochirus 11.0 - 15.0 mg/L [static] (EPA); LC50 96 h Oryzias latipes 54 mg/L [static] (EPA); LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static] (EPA);

LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static] (EPA)

EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [Static] (EPA); EC50 48 h Daphnia

magna 11.5 mg/L (IUCLID)

EC50 96 h Pseudokirchneriella subcapitata >433 mg/L (IUCLID); EC50 72 h

Pseudokirchneriella subcapitata 12.5 mg/L [static] (EPA)

1 coddotti of inoriolid cabcapitata 12.0 mg/2 [ctato] (21 71)

ETHYL ACETATE LC50 96 h Pimephales promelas 220 - 250 mg/L [flow-through] (EPA); LC50 96

h Oncorhynchus mykiss 484 mg/L [flow-through] (IUCLID); LC50 96 h

Oncorhynchus mykiss 352 - 500 mg/L [semi-static] (EPA) EC50 48 h Daphnia magna 560 mg/L [Static] (EPA)

ISOBUTYL ACETATE LC50 96 h Oryzias latipes 17 mg/L (ECHA)

DOA PLASTICIZER LC50 96 h Lepomis macrochirus 0.48 - 0.85 mg/L [static] (EPA); LC50 96 h

Oncorhynchus mykiss 0.48 - 0.85 mg/L [static] (EPA); LC50 96 h Pimephales

promelas 0.48 - 0.85 mg/L [static] (EPA) EC50 48 h Daphnia magna >1.6 mg/L (IUCLID)

EC50 72 h Desmodesmus subspicatus >500 mg/L (IUCLID)

Ethyl alcohol LC50 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/L [static] (EPA); LC50 96 h

Pimephales promelas >100 mg/L [static] (EPA); LC50 96 h Pimephales

promelas 13400 - 15100 mg/L [flow-through] (EPA)

LC50 48 h Daphnia magna 9268 - 14221 mg/L (IUCLID); EC50 48 h Daphnia

magna 2 mg/L [Static] (EPA)

Isopropyl alcohol LC50 96 h Pimephales promelas 9640 mg/L [flow-through] (IUCLID); LC50 96 h

Pimephales promelas 11130 mg/L [static] (IUCLID); LC50 96 h Lepomis

macrochirus >1400000 µg/L (EPA)

EC50 48 h Daphnia magna 13299 mg/L (IUCLID)

EC50 96 h Desmodesmus subspicatus >1000 mg/L (IUCLID); EC50 72 h

Desmodesmus subspicatus >1000 mg/L (IUCLID)

Propylene glycol monomethyl

ether acetate

LC50 96 h Pimephales promelas 161 mg/L [static] (IUCLID)

EC50 48 h Daphnia magna >500 mg/L (IUCLID)

2-BUTOXYETHANOL LC50 96 h Lepomis macrochirus 1490 mg/L [static] (EPA); LC50 96 h Lepomis

macrochirus 2950 mg/L (IUCLID)

EC50 48 h Daphnia magna >1000 mg/L (EPA)

## **SECTION 13 - Disposal Considerations**

Do not flush to sewer, watershed or waterway. Dispose of product in accordance with applicable local, county, state and federal regulations. See Section 8 for information on exposure control and necessary personal protective equipment.

#### **SECTION 14 - Transportation Information**

Ship according to the Department of Transportation (DOT) 49 CFR regulations.

Agency Proper Shipping Name UN Number Packing Group Hazard Class

DOT AEROSOLS, FLAMMABLE UN1950 2.1

Freight Class:

# **SECTION 15 - Regulatory Information**

# California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains the follosing listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

64-17-5 Ethyl alcohol 13463-67-7 Titanium dioxide

108-88-3 TOLUENE

48FORTY 1/10/2023 Page 7 of 8

# The following ingredients are listed in the TSCA Section 8(b) Inventory (Hydrated forms of chemical substances are exempt from the inventory as mixtures; the anhydrous chemical substances, however, are reportable for the Inventory):

111-76-2 2-BUTOXYETHANOL

108-65-6 Propylene glycol monomethyl ether acetate

67-63-0 Isopropyl alcohol

64-17-5 Ethyl alcohol

103-23-1 DOA PLASTICIZER

9004-70-0 Nitrocellulose

13463-67-7 Titanium dioxide

106-97-8 Butane

110-19-0 ISOBUTYL ACETATE

141-78-6 ETHYL ACETATE

108-88-3 TOLUENE

74-98-6 Propane

# US CAA Section 112 Hazardous Air Pollutants (HAPs) List

108-88-3 TOLUENE

## US EPCRA (SARA Title III) Section 313 - Toxic Chemical:

67-63-0 Isopropyl alcohol 108-88-3 TOLUENE

#### **Hazardous Material Information System (HMIS)**



## **SECTION 16 - Disclaimer**

Date Prepared: 1/10/2023 Date revised: 2023-01-10

Reviewer Revision

THIS DOCUMENT SUPERSEDES ANY PROVISION CONTAINED IN THE FORMS, LETTERS, AND PAPERS OF YOUR COMPANY. THIS PRODUCT IS DESIGNED AND INTENDED FOR PROFESSIONAL APPLICATION ONLY. ALL PRODUCTS SHOULD BE THOROUGHLY TESTED UNDER APPLICATION CONDITIONS PRIOR TO USE. THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE RELIABLE. HOWEVER, GEMINI MAKES NO WARRANTY CONCERNING THIS PRODUCT, WHETHER EXPRESS OR IMPLIED. INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES SHALL GEMINI BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR ANY OTHER DAMAGES FROM ALLEGED NEGLIGENCE, BREACH OR WARRANTY, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY, ARISING OUT OF THE USE OR HANDLING OF THIS PRODUCT. THE SOLE REMEDY OF THE BUYER AND THE SOLELIABILITY OF GEMINI FOR ANY CLAIMS SHALL BE LIMITED TO THE BUYER'S PURCHASE PRICE OF THE PRODUCT WHICH IS THE SUBJECT OF THE CLAIM OR THE AMOUNT ACTUALLY PAID FOR SUCH PRODUCT, WHICHEVER IS LESS. TECHNICAL ADVICE FURNISHED BY GEMINI SHALL NOT CONSTITUTE AN EXPRESS WARRANTY, WHICH IS EXPRESSLY DISCLAIMED. ALL TECHNICAL ADVICE GIVEN IS ACCEPTED AT THE RISK OF THE BUYER.