



MATERIAL SAFETY DATA SHEET • GM VEHICLE CARE LACQUER TOUCH-UP PAINT

1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: GM VehicleCare Lacquer Touch-Up Paint

Product Synonyms:

TOUCH-UP PAINT - 1/2 OZ TUBE

External Keys:

TOUCH-UP Distributable Material (Part #)

PAINT

TOUCH-UP Primary Tradename - Distributable Material

PAINT - 1/2 OZ

TUBE

MANUFACTURER INFORMATION

Manufacturer: SHERWIN-WILLIAMS COMPANY

Address:

101 PROSPECT AVENUE USA OHIO 44115 CLEVELAND MAILING
N.W.

Communication Lines:

Phone	216-566-2917	EMERGENCY
Phone	216-566-2902	Information
Phone	800-247-3270	Information - Duplicolor Products Group
Phone	800-247-3266	Information - Diversified Brands
Phone	800-832-2541	Information - Krylon Products Group
Phone	800-251-2486	Information - Consumer Group Industrial

Comment:

Manufacturer name changed. Formerly manufactured by Dupli-Color Prod. Co.

2 INGREDIENT INFORMATION

FORMULATION

Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
2-BUTANONE	78-93-3	=	34	%Wt	Yes
TOLUENE	108-88-3	=	27	%Wt	Yes
ALUMINUM OXIDE (2:3)	1344-28-1	=<	3	%Wt	Yes
PROPIONIC ACID, 3-ETHOXY-, ETHYL ESTER	763-69-9	Range	11-18	%Wt	No
TALC (powder), containing no asbestos fibers	14807-96-6	=<	10	%Wt	Yes
2-PENTANONE, 4-METHYL-	108-10-1	=	11	%Wt	Yes
CARBONIC ACID, CALCIUM SALT (1:1)	471-34-1	=<	4	%Wt	Yes
SILICATE, MICA	12001-26-2	=<	7	%Wt	Yes
ETHYL ALCOHOL	64-17-5	=<	10	%Wt	Yes
TITANIUM OXIDE	13463-67-7	=<	9	%Wt	Yes
ISOPROPYL ALCOHOL	67-63-0	=<	7	%Wt	Yes
ACETIC ACID, PROPYL ESTER	109-60-4	=<	3	%Wt	Yes
ACETIC ACID, BUTYL ESTER	123-86-4	=<	4	%Wt	Yes
Solvent naphtha, petroleum, medium aliph.	64742-88-7	=<	1	%Wt	No
Distillates, petroleum, light distillate hydrotreating process, low-boiling	68410-97-9	=<	1	%Wt	No
METHANOL	67-56-1	=	2	%Wt	Yes
ACETIC ACID, ETHYL ESTER	141-78-6	=<	8	%Wt	Yes
BENZENE, ETHYL-	100-41-4	=	0.1	%Wt	Yes
Naphthenic acids, nickel salts	61788-71-4	=	0.2	%Wt	No
CARBON BLACK	1333-86-4	=<	0.5	%Wt	Yes

3 HAZARDS IDENTIFICATION

Specific Hazards:

ROUTES OF EXPOSURE: Inhalation of vapor or spray mist; Eye or skin contact with the product, vapor or spray mist.

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Specific Hazards (Routes Of Exposure):

<u>Exposure Routes</u>	<u>Observation</u>
Skin Contact	Prolonged or repeated exposure may cause irritation.
Eye Contact	Irritation.
Inhalation	Irritation of the upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Effects Of Overexposure:

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Medical Conditions Aggravated By Exposure:

None generally recognized.

4 FIRST AID MEASURES

First Aid By::

Inhalation	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
Skin Contact	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse.
Eye Contact	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
Ingestion	Do not induce vomiting. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Product Flammability:

FLAMMABILITY CLASSIFICATION -- RED LABEL -- Flammable, Flash below 100 °F

Flash Point:

Range -4 - 36 F PMCC

Explosive Limits:

Upper Explosive Limit = 36.5
(UEL)

Lower Explosive Limit = 1.0
(LEL)

Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam.

Fire and Explosion Hazards:

Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

6 ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES

Recovery:

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

7 HANDLING AND STORAGE

HANDLING

Safe Handling Procedures:

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures. Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

STORAGE

Storage Conditions:

STORAGE CATEGORY - DOL Storage Class IB.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

EXPOSURE LIMITS

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Limit Values:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specificati on</u>	<u>Source</u>	<u>Memo</u>
2-BUTANONE	78-93-3	PEL-T WA	200ppm	-	OSHA - Permissible Exposure Limits (PELs)	
2-BUTANONE	78-93-3	GM OEG- TWA	200ppm	-	GM Occupational Exposure Guidelines (OEG)	
2-BUTANONE	78-93-3	GM OEG- STEL	300ppm	-	GM Occupational Exposure Guidelines (OEG)	
2-BUTANONE	78-93-3	TLV- TWA	200ppm	-	Threshold Limit Values (TLVs) - ACGIH	
2-BUTANONE	78-93-3	TLV- STEL	300ppm	-	Threshold Limit Values (TLVs) - ACGIH	
2-BUTANONE	78-93-3	State- TWA	200ppm	-	MICHIGAN	
2-BUTANONE	78-93-3	State- STEL	300ppm	-	MICHIGAN	
2-BUTANONE	78-93-3	State- TWA	200ppm	-	NEW YORK	
2-BUTANONE	78-93-3	State- STEL	300ppm	-	NEW YORK	
2-BUTANONE	78-93-3	State- TWA	200ppm	-	TENNESSEE	
2-BUTANONE	78-93-3	State- STEL	300ppm	-	TENNESSEE	
TOLUENE	108-88-3	PEL-T WA	200ppm	-	OSHA - Permissible Exposure Limits (PELs)	
TOLUENE	108-88-3	PEL-C eiling	300ppm	-	OSHA - Permissible Exposure Limits (PELs)	
TOLUENE	108-88-3	GM OEG- TWA	50ppm	-	GM Occupational Exposure Guidelines (OEG)	Skin
TOLUENE	108-88-3	TLV- TWA	50ppm	-	Threshold Limit Values (TLVs) - ACGIH	Skin
TOLUENE	108-88-3	State- TWA	100ppm	-	MICHIGAN	
TOLUENE	108-88-3	State- STEL	150ppm	-	MICHIGAN	
TOLUENE	108-88-3	State- TWA	100ppm	-	NEW YORK	
TOLUENE	108-88-3	State- STEL	150ppm	-	NEW YORK	
TOLUENE	108-88-3	State- STEL	100ppm	-	TENNESSEE	

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TOLUENE	108-88-3	TWA State- STEL	150ppm	-	TENNESSEE	
ALUMINUM OXIDE (2:3)	1344-28-1	PEL-T WA	15mg/m3	-	OSHA - Permissible Exposure Limits (PELs)	
ALUMINUM OXIDE (2:3)	1344-28-1	GM OEG- TWA	10mg/m3	-	GM Occupational Exposure Guidelines (OEG)	
ALUMINUM OXIDE (2:3)	1344-28-1	TLV- TWA	10mg/m3	-	Threshold Limit Values (TLVs) - ACGIH	
ALUMINUM OXIDE (2:3)	1344-28-1	State- TWA	10mg/m3	-	MICHIGAN	
ALUMINUM OXIDE (2:3)	1344-28-1	State- TWA	10mg/m3	-	NEW YORK	
ALUMINUM OXIDE (2:3)	1344-28-1	State- TWA	10mg/m3	-	TENNESSEE	
TALC (powder), containing no asbestos fibers	14807-96-6	TLV- TWA	2mg/m3	-	Threshold Limit Values (TLVs) - ACGIH	
TALC (powder), containing no asbestos fibers	14807-96-6	GM OEG- TWA	2mg/m3	-	GM Occupational Exposure Guidelines (OEG)	
2-PENTANONE, 4-METHYL-	108-10-1	PEL-T WA	100ppm	-	OSHA - Permissible Exposure Limits (PELs)	
2-PENTANONE, 4-METHYL-	108-10-1	GM OEG- TWA	50ppm	-	GM Occupational Exposure Guidelines (OEG)	
2-PENTANONE, 4-METHYL-	108-10-1	GM OEG- STEL	75ppm	-	GM Occupational Exposure Guidelines (OEG)	
2-PENTANONE, 4-METHYL-	108-10-1	TLV- TWA	50ppm	-	Threshold Limit Values (TLVs) - ACGIH	
2-PENTANONE, 4-METHYL-	108-10-1	TLV- STEL	75ppm	-	Threshold Limit Values (TLVs) - ACGIH	
2-PENTANONE, 4-METHYL-	108-10-1	State- TWA	50ppm	-	MICHIGAN	
2-PENTANONE, 4-METHYL-	108-10-1	State- STEL	75ppm	-	MICHIGAN	
2-PENTANONE, 4-METHYL-	108-10-1	State- TWA	50ppm	-	NEW YORK	
2-PENTANONE, 4-METHYL-	108-10-1	State- STEL	75ppm	-	NEW YORK	

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2-PENTANONE, 4-METHYL-	108-10-1	State- TWA	50ppm	-	TENNESSEE	
2-PENTANONE, 4-METHYL-	108-10-1	State- STEL	75ppm	-	TENNESSEE	
CARBONIC ACID, CALCIUM SALT (1:1)	471-34-1	TLV- TWA	10mg/m3	-	Threshold Limit Values (TLVs) - ACGIH	
CARBONIC ACID, CALCIUM SALT (1:1)	471-34-1	PEL-T WA	15mg/m3	-	OSHA - Permissible Exposure Limits (PELs)	
SILICATE, MICA	12001-26-2	GM OEG- TWA	3mg/m3	-	GM Occupational Exposure Guidelines (OEG)	
SILICATE, MICA	12001-26-2	TLV- TWA	3mg/m3	-	Threshold Limit Values (TLVs) - ACGIH	
SILICATE, MICA	12001-26-2	State- TWA	3mg/m3	-	MICHIGAN	
SILICATE, MICA	12001-26-2	State- TWA	3mg/m3	-	NEW YORK	
SILICATE, MICA	12001-26-2	State- TWA	3mg/m3	-	TENNESSEE	
ETHYL ALCOHOL	64-17-5	PEL-T WA	1000ppm	-	OSHA - Permissible Exposure Limits (PELs)	
ETHYL ALCOHOL	64-17-5	GM OEG- TWA	1000ppm	-	GM Occupational Exposure Guidelines (OEG)	
ETHYL ALCOHOL	64-17-5	TLV- TWA	1000ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ETHYL ALCOHOL	64-17-5	State- TWA	1000ppm	-	MICHIGAN	
ETHYL ALCOHOL	64-17-5	State- TWA	1000ppm	-	NEW YORK	
ETHYL ALCOHOL	64-17-5	State- TWA	1000ppm	-	TENNESSEE	
TITANIUM OXIDE	13463-67-7	PEL-T WA	15mg/m3	-	OSHA - Permissible Exposure Limits (PELs)	
TITANIUM OXIDE	13463-67-7	GM OEG- TWA	10mg/m3	-	GM Occupational Exposure Guidelines (OEG)	
TITANIUM OXIDE	13463-67-7	TLV- TWA	10mg/m3	-	Threshold Limit Values (TLVs) - ACGIH	
TITANIUM OXIDE	13463-67-7	State- TWA	10mg/m3	-	MICHIGAN	

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TITANIUM OXIDE	13463-67-7	State- TWA	5mg/m3	-	NEW YORK	
TITANIUM OXIDE	13463-67-7	State- TWA	10mg/m3	-	TENNESSEE	
ISOPROPYL ALCOHOL	67-63-0	PEL-T WA	400ppm	-	OSHA - Permissible Exposure Limits (PELs)	
ISOPROPYL ALCOHOL	67-63-0	GM OEG- TWA	200ppm	-	GM Occupational Exposure Guidelines (OEG)	
ISOPROPYL ALCOHOL	67-63-0	GM OEG- STEL	400ppm	-	GM Occupational Exposure Guidelines (OEG)	
ISOPROPYL ALCOHOL	67-63-0	TLV- TWA	200ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ISOPROPYL ALCOHOL	67-63-0	TLV- STEL	400ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ISOPROPYL ALCOHOL	67-63-0	State- TWA	400ppm	-	MICHIGAN	
ISOPROPYL ALCOHOL	67-63-0	State- STEL	500ppm	-	MICHIGAN	
ISOPROPYL ALCOHOL	67-63-0	State- TWA	400ppm	-	NEW YORK	
ISOPROPYL ALCOHOL	67-63-0	State- STEL	500ppm	-	NEW YORK	
ISOPROPYL ALCOHOL	67-63-0	State- TWA	400ppm	-	TENNESSEE	
ISOPROPYL ALCOHOL	67-63-0	State- STEL	500ppm	-	TENNESSEE	
ACETIC ACID, PROPYL ESTER	109-60-4	PEL-T WA	200ppm	-	OSHA - Permissible Exposure Limits (PELs)	
ACETIC ACID, PROPYL ESTER	109-60-4	GM OEG- TWA	200ppm	-	GM Occupational Exposure Guidelines (OEG)	
ACETIC ACID, PROPYL ESTER	109-60-4	GM OEG- STEL	250ppm	-	GM Occupational Exposure Guidelines (OEG)	
ACETIC ACID, PROPYL ESTER	109-60-4	TLV- TWA	200ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ACETIC ACID, PROPYL ESTER	109-60-4	TLV- STEL	250ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ACETIC ACID, PROPYL ESTER	109-60-4	State-	200ppm	-	MICHIGAN	

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ACETIC ACID, PROPYL ESTER	109-60-4	TWA State- STEL	250ppm	-	MICHIGAN	
ACETIC ACID, PROPYL ESTER	109-60-4	State- TWA	200ppm	-	NEW YORK	
ACETIC ACID, PROPYL ESTER	109-60-4	State- STEL	250ppm	-	NEW YORK	
ACETIC ACID, PROPYL ESTER	109-60-4	State- TWA	200ppm	-	TENNESSEE	
ACETIC ACID, PROPYL ESTER	109-60-4	State- STEL	250ppm	-	TENNESSEE	
ACETIC ACID, BUTYL ESTER	123-86-4	PEL-T WA	150ppm	-	OSHA - Permissible Exposure Limits (PELs)	
ACETIC ACID, BUTYL ESTER	123-86-4	GM OEG- TWA	150ppm	-	GM Occupational Exposure Guidelines (OEG)	
ACETIC ACID, BUTYL ESTER	123-86-4	GM OEG- STEL	200ppm	-	GM Occupational Exposure Guidelines (OEG)	
ACETIC ACID, BUTYL ESTER	123-86-4	TLV- TWA	150ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ACETIC ACID, BUTYL ESTER	123-86-4	TLV- STEL	200ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ACETIC ACID, BUTYL ESTER	123-86-4	State- TWA	150ppm	-	MICHIGAN	
ACETIC ACID, BUTYL ESTER	123-86-4	State- STEL	200ppm	-	MICHIGAN	
ACETIC ACID, BUTYL ESTER	123-86-4	State- TWA	150ppm	-	NEW YORK	
ACETIC ACID, BUTYL ESTER	123-86-4	State- STEL	200ppm	-	NEW YORK	
ACETIC ACID, BUTYL ESTER	123-86-4	State- TWA	150ppm	-	TENNESSEE	
ACETIC ACID, BUTYL ESTER	123-86-4	State- STEL	200ppm	-	TENNESSEE	
METHANOL	67-56-1	PEL-T WA	200ppm	-	OSHA - Permissible Exposure Limits (PELs)	
METHANOL	67-56-1	GM OEG- TWA	200ppm	-	GM Occupational Exposure Guidelines (OEG)	Skin
METHANOL	67-56-1	GM OEG- STEL	250ppm	-	GM Occupational Exposure Guidelines (OEG)	Skin
METHANOL	67-56-1	TLV- TWA	200ppm	-	Threshold	Skin

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METHANOL	67-56-1	TLV- STEL	250ppm	-	Limit Values (TLVs) - ACGIH Threshold Limit Values (TLVs) - ACGIH	Skin
METHANOL	67-56-1	State- TWA	200ppm	-	MICHIGAN	
METHANOL	67-56-1	State- STEL	250ppm	-	MICHIGAN	
METHANOL	67-56-1	State- TWA	200ppm	-	NEW YORK	
METHANOL	67-56-1	State- STEL	250ppm	-	NEW YORK	
METHANOL	67-56-1	State- TWA	200ppm	-	TENNESSEE	
METHANOL	67-56-1	State- STEL	250ppm	-	TENNESSEE	
ACETIC ACID, ETHYL ESTER	141-78-6	PEL-T WA	400ppm	-	OSHA - Permissible Exposure Limits (PELs)	
ACETIC ACID, ETHYL ESTER	141-78-6	GM OEG- TWA	400ppm	-	GM Occupational Exposure Guidelines (OEG)	
ACETIC ACID, ETHYL ESTER	141-78-6	TLV- TWA	400ppm	-	Threshold Limit Values (TLVs) - ACGIH	
ACETIC ACID, ETHYL ESTER	141-78-6	State- TWA	400ppm	-	MICHIGAN	
ACETIC ACID, ETHYL ESTER	141-78-6	State- TWA	400ppm	-	NEW YORK	
ACETIC ACID, ETHYL ESTER	141-78-6	State- TWA	400ppm	-	TENNESSEE	
BENZENE, ETHYL-	100-41-4	PEL-T WA	100ppm	-	OSHA - Permissible Exposure Limits (PELs)	
BENZENE, ETHYL-	100-41-4	GM OEG- TWA	100ppm	-	GM Occupational Exposure Guidelines (OEG)	
BENZENE, ETHYL-	100-41-4	GM OEG- STEL	125ppm	-	GM Occupational Exposure Guidelines (OEG)	
BENZENE, ETHYL-	100-41-4	TLV- TWA	100ppm	-	Threshold Limit Values (TLVs) - ACGIH	
BENZENE, ETHYL-	100-41-4	TLV- STEL	125ppm	-	Threshold Limit Values (TLVs) - ACGIH	
BENZENE, ETHYL-	100-41-4	State-	100ppm	-	MICHIGAN	

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BENZENE, ETHYL-	100-41-4	TWA State- STEL	125ppm	-	MICHIGAN	
BENZENE, ETHYL-	100-41-4	State- TWA	100ppm	-	NEW YORK	
BENZENE, ETHYL-	100-41-4	State- STEL	125ppm	-	NEW YORK	
BENZENE, ETHYL-	100-41-4	State- TWA	100ppm	-	TENNESSEE	
BENZENE, ETHYL-	100-41-4	State- STEL	125ppm	-	TENNESSEE	
CARBON BLACK	1333-86-4	PEL-T WA	3.5mg/m3	-	OSHA - Permissible Exposure Limits (PELs)	
CARBON BLACK	1333-86-4	GM OEG- TWA	3.5mg/m3	-	GM Occupational Exposure Guidelines (OEG)	
CARBON BLACK	1333-86-4	TLV- TWA	3.5mg/m3	-	Threshold Limit Values (TLVs) - ACGIH	
CARBON BLACK	1333-86-4	State- TWA	3.5mg/m3	-	MICHIGAN	
CARBON BLACK	1333-86-4	State- TWA	3.5mg/m3	-	NEW YORK	
CARBON BLACK	1333-86-4	State- TWA	3.5mg/m3	-	TENNESSEE	

Additional Limit Values:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Comment</u>
ALUMINUM OXIDE (2:3)	1344-28-1	Not Available			ACGIH TLV
ALUMINUM OXIDE (2:3)	1344-28-1	=	15	mg/m3	(Total Dust); OSHA PEL
ALUMINUM OXIDE (2:3)	1344-28-1	=	5	mg/m3	(Respirable fraction); OSHA PEL
TALC (powder), containing no asbestos fibers	14807-96-6	=	2	mg/m3	(Resp. Dust); ACGIH TLV
TALC (powder), containing no asbestos fibers	14807-96-6	=	2	mg/m3	(Resp. Dust); OSHA PEL
SILICATE, MICA	12001-26-2	=	3	mg/m3	(Resp. Dust); ACGIH TLV
SILICATE, MICA	12001-26-2	=	3	mg/m3	(Resp. Dust); OSHA PEL
CARBONIC ACID, CALCIUM SALT (1:1)	471-34-1	=	10	mg/m3	(as Dust);

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CARBONIC ACID, CALCIUM SALT (1:1)	471-34-1	=	15	mg/m3	ACGIH TLV (as Total Dust); OSHA PEL (Respirable Fraction);
CARBONIC ACID, CALCIUM SALT (1:1)	471-34-1	=	5	mg/m3	OSHA PEL (as Dust);
TITANIUM OXIDE	13463-67-7	=	10	mg/m3	ACGIH TLV (as Total Dust);
TITANIUM OXIDE	13463-67-7	=	10	mg/m3	OSHA PEL (Respirable Fraction);
TITANIUM OXIDE	13463-67-7	=	5	mg/m3	OSHA PEL

Comment:

These coatings may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m3 (total dust), 3 mg./m3 (respirable fraction), OSHA PEL 15 mg./m3 (total dust), 5 mg./m3 (respirable fraction).

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Eye Protection	Wear safety spectacles with unperforated sideshields.
Respiratory Protection	If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2. When sanding, wirebrushing, abrading, burning or welding the dried film, wear a particulate respirator approved by NIOSH/MSHA for protection against non-volatile materials in Section 2.
Hand Protection	PROTECTIVE GLOVES - Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

Hygiene Measures:

Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

Special Precautions:

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Liquid

PHYSICAL PROPERTIES

Changes of State:

Boiling Point	Range	148-395	F	(64-202C)
Melting/Freezing Point	Not Available			Melting Point

Vapor Pressure:

Light Aliphatic Hydrocarbon Solvent (68410-97-9) = 10mm, Mineral Spirits (64742-88-7) = 2mm, Toluene (108-88-3) = 22mm, Ethylbenzene (100-41-4) = 7.1mm, Methanol (67-56-1) = 92mm, Ethanol (64-17-5) = 44mm, 2-Propanol (67-63-0) = 33mm, Methyl Ethyl Ketone (78-93-3) = 70mm, Methyl Isobutyl Ketone (108-10-1) = 16mm, Ethyl Acetate (141-78-6) = 86mm, n-Propyl Acetate (109-60-4) = 23mm, Ethyl 3-Ethoxypropionate

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(763-69-9) = 1.11mm, n-Butyl Acetate (123-86-4) = 10mm

Vapor Density:

HEAVIER THAN AIR.

Evaporation Rate:

Slower than ether

Density:

Density	Range	7.5-8.9	lb/gal	(899-1066 g/L); Product Weight
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Specific Gravity:

Range	0.90-1.07
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Solubility:

Water	N.A.
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VOC:

Theoretical VOC (by wt.)	Range	5.4-6.1	lb/gal	Less Water and Federally Exempt Solvents
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Theoretical VOC (by wt.)	Range	5.4-6.1	lb/gal	Emitted VOC
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Total Amount Of::

Percent Volatile by Volume	Range	77-86	'%
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10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Conditions to Avoid:

None known.

Incompatible Materials:

Contamination of Metallics with Water, Acids, or Alkalis may cause evolution of hydrogen, which may result in dangerously increased pressures in closed containers.

Hazardous Polymerization:

Will not occur

HAZARDOUS DECOMPOSITION

Reactions:

Type of Reaction

Decomposition

Reaction Products

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of metals in Section 2.

11 TOXICOLOGICAL INFORMATION

OCCUPATIONAL EXPERIENCES

Health Effects:

CHRONIC HEALTH HAZARDS: Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood-forming and cardiovascular systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

SCIENTIFIC OBSERVATIONS

TOXICOLOGICAL EFFECTS

Data By Chemical:

Chemical Name

2-BUTANONE

CAS Number

78-93-3

Comment

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

LETHAL LIMIT VALUES

Data By Chemical:

Chemical Name

Distillates, petroleum, light distillate

hydrotreating process, low-boiling

CAS Number

68410-97-9

Type

LD50

Prefix

Not Available

Value

Unit

Species

Rat

Comment

Distillates, petroleum, light distillate

hydrotreating process,

68410-97-9

LC50

Not Available

Rat

4HR

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Species</u>	<u>Comment</u>
low-boiling Solvent naphtha, petroleum, medium aliph.	64742-88-7	LD50	Not Available			Rat	
Solvent naphtha, petroleum, medium aliph.	64742-88-7	LC50	Not Available			Rat	4HR
TOLUENE	108-88-3	LD50	=	5000	mg/kg	Rat	
TOLUENE	108-88-3	LC50	=	4000	ppm	Rat	4HR
BENZENE, ETHYL-	100-41-4	LD50	=	3500	mg/kg	Rat	
BENZENE, ETHYL-	100-41-4	LC50	Not Available			Rat	4HR
METHANOL	67-56-1	LD50	=	5630	mg/kg	Rat	
METHANOL	67-56-1	LC50	=	64000	ppm	Rat	4HR
ETHYL ALCOHOL	64-17-5	LD50	=	7060	mg/kg	Rat	
ETHYL ALCOHOL	64-17-5	LC50	Not Available			Rat	4HR
ISOPROPYL ALCOHOL	67-63-0	LD50	=	5045	mg/kg	Rat	
ISOPROPYL ALCOHOL	67-63-0	LC50	Not Available			Rat	4HR
2-BUTANONE	78-93-3	LD50	=	2740	mg/kg	Rat	
2-BUTANONE	78-93-3	LC50	Not Available			Rat	4HR
2-PENTANONE, 4-METHYL-	108-10-1	LC50	Not Available			Rat	4HR
2-PENTANONE, 4-METHYL-	108-10-1	LD50	=	2080	mg/kg	Rat	
ACETIC ACID, ETHYL ESTER	141-78-6	LC50	Not Available			Rat	4HR
ACETIC ACID, ETHYL ESTER	141-78-6	LD50	=	5600	mg/kg	Rat	
ACETIC ACID, PROPYL ESTER	109-60-4	LC50	Not Available			Rat	4HR
ACETIC ACID, PROPYL ESTER	109-60-4	LD50	=	9370	mg/kg	Rat	
PROPIONIC ACID, 3-ETHOXY-, ETHYL ESTER	763-69-9	LC50	Not Available			Rat	4HR
PROPIONIC ACID, 3-ETHOXY-, ETHYL ESTER	763-69-9	LD50	=	5000	mg/kg	Rat	
ACETIC ACID, BUTYL ESTER	123-86-4	LC50	=	2000	ppm	Rat	4HR
ACETIC ACID, BUTYL ESTER	123-86-4	LD50	=	13100	mg/kg	Rat	
Naphthenic acids, nickel salts	61788-71-4	LC50	Not Available			Rat	4HR
Naphthenic acids, nickel salts	61788-71-4	LD50	Not Available			Rat	
ALUMINUM OXIDE (2:3)	1344-28-1	LC50	Not Available			Rat	4HR
ALUMINUM OXIDE (2:3)	1344-28-1	LD50	Not Available			Rat	
TALC (powder), containing no asbestos fibers	14807-96-6	LC50	Not Available			Rat	4HR
SILICATE, MICA	12001-26-2	LC50	Not Available			Rat	4HR
SILICATE, MICA	12001-26-2	LD50	Not Available			Rat	
CARBONIC ACID, CALCIUM SALT	471-34-1	LC50	Not			Rat	4HR

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Species</u>	<u>Comment</u>
(1:1) CARBONIC ACID, CALCIUM SALT (1:1)	471-34-1	LD50	Available Not Available			Rat	
TITANIUM OXIDE	13463-67-7	LC50	Not Available			Rat	4HR
TITANIUM OXIDE	13463-67-7	LD50	Not Available			Rat	
CARBON BLACK	1333-86-4	LC50	Not Available			Rat	4HR
CARBON BLACK	1333-86-4	LD50	Not Available			Rat	
TALC (powder), containing no asbestos fibers	14807-96-6	LD50	Not Available			Rat	

CLASSIFICATION OF INGREDIENTS

Carcinogenicity:

ETHYLBENZENE (100-41-4) is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

CARBON BLACK (1333-86-4) is classified by IARC as possibly carcinogenic to humans (group 2B) based upon experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

TITANIUM DIOXIDE (13463-67-7): Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

All nickel compounds and pure nickel are classified by IARC and NTP as human carcinogens. Certain nickel compounds caused cancer in laboratory animals when inhaled or injected. NICKEL NAPHTHENATE (61788-71-4) was not specifically tested.

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer.

Reproductive Effects:

CHRONIC HEALTH HAZARDS: Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to reproductive systems.

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to birth defects or other reproductive harm.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Comment:

ECOTOXICOLOGICAL INFORMATION: No data available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:

Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability and extractability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

14 TRANSPORT INFORMATION

DOT Shipping Name:

PAINT

DOT Hazard Class:

3

DOT UN Code:

UN1263

DOT Packing Group:

II

Comment:

Canada Land: PAINT, CLASS 3, UN1263, PG II.

Mexico: PAINT, 3, UN1263, PG II.

International: PAINT, CLASS 3, UN1263, PG II (4 degrees C)

IATA: PAINT, 3, UN1263, PG II.

NOTE: Transport information may change depending upon container size. Exceptions and exemptions may apply.

15 REGULATORY INFORMATION

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LABELLING

Hazard Codes:

NFPA Flammability	3
NFPA Health	2
NFPA Reactivity	1
HMIS Reactivity	1
HMIS Health	2
HMIS Flammability	3

Comment:

NFPA assigned by General Motors Technical Review.

HMIS Health Rating = 2*.

NATIONAL REGULATIONS

SARA 311/312: No

SARA 313: Yes

Immediate Health: No

Delayed Health: No

Fire: No

Sudden Pressure Release: No

Reactive: No

Other Regulation:

SARA 313 (40 CFR 372.65C) SUPPLIER
NOTIFICATION

Toluene (108-88-3): max 27% by WT;
Ethylbenzene (100-41-4) max 0.1% by WT;
Methanol (67-56-1) max 2% by WT; Methyl Ethyl
Ketone (78-93-3) max 34% by WT; Methyl
Isobutyl Ketone (108-10-1) max 11% by WT; Zinc
Compound max 2% by WT, max 0.6% Element;
Chromium III Compound max 2% by WT, max
0.1% Element; Nickel Compound max 0.2% by
WT, max 0.05% Element.

TSCA Certification

All chemicals in these products are listed, or are
exempt from listing, on the TSCA Inventory.

Comment:

This document is provided to meet specific regulatory or customer requirements. It contains additional composition information beyond that required by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and other Federal regulations.

STATE/LOCAL REGULATIONS

Comment:

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

16 OTHER INFORMATION

Comments:

Additional Exposure Limits: GM Occupational Exposure Guideline (OEG) and State TWA's were provided by General Motors.
