

FORMULA FIVE Matte Top Coat

Safety Data Sheet
according to OSHA HCS and GHS - Canada WHMIS 2015

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product Identifier**

Product form : Mixture
Trade name : FORMULA FIVE Matte Top Coat

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Release agent

1.3 Details of the supplier of the safety data sheet

Supplier : REXCO
P.O. Box 80996
Conyers, GA 30013
U.S.A.

Telephone : 1-770-483-7610
Fax : 1-770-483-8550
Email : info@rexco-usa.com
Website : www.rexco-usa.com

1.4 Emergency telephone number

Chemtrec (24 hours/day) : 1-800-434-9300 (USA and Canada)
: 1-703-527-3887 (international; collect calls accepted)

SECTION 2. Hazards Identification**2.1 Classification of the substance or mixture**

Classification according to OSHA-HCS and GHS-Canada WHMIS 2015

Flam. Liq. 2	H225	Highly flammable liquid and vapour
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways
Skin Irrit. 2	H315	Causes skin irritation
STOT SE 3	H336	May cause drowsiness or dizziness
Repr. 2	H361	Suspected of damaging fertility or the unborn child.
STOT RE 1	H372	Causes damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects

See section 16 for full text of H-phrases.

2.2 Label elements

Labeling according to the Globally Harmonized System (GHS)

Pictograms



Signal word : **Danger**

Hazard statements

H225 Highly flammable liquid and vapour
H304 May be fatal if swallowed and enters airways

H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: See Section 5.2 for extinguishing media.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

SECTION 3. Composition/information on ingredients**3.1 Substances**

Not applicable. This material is not defined as a substance.

3.2 Mixtures

This material is defined as a mixture.

Components contributing to the classification of this material

	%
Solvent naphtha (petroleum), light aliphatic	75 - 100
CAS No. 64742-89-8	
Flam. Liq. 2, H225	
Asp. Tox. 1, H304	
Skin Irrit. 2, H315	

STOT SE 3, H336

Stoddard solvent 10 - 20
CAS No. 8052-41-3
Flam. Liq. 3, H226
Asp. Tox. 1, H304
STOT SE 3, H336
STOT RE 1, H372
Aquatic Chronic 2, H411

Toluene 0.1 - 2.5
CAS No. 108-88-3
Flam. Liq. 2, H225
Asp. Tox. 1, H304
Skin Irrit. 2, H315
STOT SE 3, H336
Repr. 2, H361
STOT RE 2, H373

Trade secret 0.1 - 2.5
CAS No. --
Acute Tox. 4, H312

Components not listed are either non-hazardous or are below reportable limits. Concentrations are in percent by weight.

SECTION 4. First aid measures

General information

Do not leave victim unattended. Show this safety data sheet to doctor in attendance. Conduct medical observation for at least 48 hours after accidental exposure as symptoms of poisoning may occur several hours after initial exposure.

4.1 Description of first aid measures

Inhalation

Provide fresh air if light-headed or having difficulty breathing. Provide artificial respiration if needed. If difficulty breathing persists, seek medical attention. If unconscious, place victim on their side for transport to medical facility.

Skin

Remove contaminated clothing and wash affected area with soap and warm water. If irritation persists, seek medical attention. Launder contaminated clothing and shoes prior to reuse.

Eyes

Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open when rinsing. If eye irritation persists,

Ingestion

Seek immediate medical attention. Do not induce vomiting. If spontaneous vomiting occurs keep victim's head below hips to prevent aspiration into lungs. Do not leave individual unattended.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment

Treat symptomatically. Seek immediate medical attention if ingested.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Standard procedure for chemical fires. Use dry chemicals, carbon dioxide, water fog, water spray, or alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Water may be unsuitable as an extinguishing media but helpful in keeping adjacent areas cool. Avoid spreading burning liquid with water used for cooling purposes. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Poisonous gases are produced during heating or in case of fire.

Hazardous decomposition products formed during combustion

Carbon oxides, hydrocarbons, aldehydes

5.3 Advice for firefighters

Evacuate area. Firefighters should use standard protective equipment and should use self-contained breathing apparatus in enclosed spaces. Use water spray to cool surfaces exposed to fire and to protect personnel.

SECTION 6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Ensure adequate ventilation. Keep sources of ignition and hot metal surfaces isolated from spill.

6.2 Environmental precautions

Prevent product from entering drains, waterways, sewers, and soil. Stop spill at source and prevent further leakage or spillage if safe to do so. Notify proper authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Flush spilled material into suitable retaining areas or containers. Small amounts of spilled material may be absorbed with standard absorbent such as sand, vermiculite, or diatomaceous earth. Confine spill and place into suitable closed container for disposal. Dispose of in accordance with regional, national, and local laws and regulations.

6.4 Reference to other sections

Section 7: safe handling. Section 8: personal and protective equipment. Section 10: incompatible materials. Section 13: disposal information. Section 16: full text of abbreviations.

SECTION 7. Handling and storage**7.1 Precautions for safe handling**

Use in a well ventilated area or use appropriate respirator when ventilation is inadequate. Do not breathe vapor. Wear personal protective clothing and equipment as indicated in Section 8. Eliminate all sources of ignition. Use explosion-proof equipment. Do not ingest. Use good industrial hygiene practices in handling this material. Do not smoke, eat or drink while using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and leaving work. Clean up spills as soon as they occur. Empty containers may contain residual amounts of this product and should be handled with care. Do not reuse containers.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area away from direct sunlight. Avoid freezing. Store away from incompatible materials (see Section 10) and food and drink. Store in original container. Keep container tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Provide appropriate fire extinguishers and spill cleanup equipment in or near storage area. Keep unauthorized personnel away.

7.3 Specific end uses

See section 1.2

SECTION 8. Exposure controls/personal protection**8.1 Control parameters**

Ingredients with limit values that require monitoring:

Stoddard solvent
CAS No. 8052-41-3

	LTEL - 8 hours		STEL - 15 minutes	
	ppm	mg/m ³	ppm	mg/m ³
USA (ACGIH)	100	525		
USA (NIOSH)		3500		
USA (OSHA)	500	2900		

Toluene
CAS No. 108-88-3

	LTEL - 8 hours		STEL - 15 minutes	
	ppm	mg/m ³	ppm	mg/m ³
Australia	50	191	150	574
Austria	50	190	100	380
Belgium	20	77	100	384
Canada - Ontario	20			
Canada - Québec	50	188		
Denmark	25	94	50	188
Finland	25	81	100	380
France	20	76.8	100	384
Germany (AGS)	50	190	200	760
Germany (DFG)	50	190	200	760
Hungary		190		380
Ireland	50	192	100	384
Israel	50	188		
Italy	50	192		
Japan	20			
Japan (JSOH)	50	188		
Latvia	14	50	40	150
New Zealand	50	188		
People's Republic of China		50		100
Poland		100		200
Romania	50	192	100	384
Singapore	50	188		
South Korea	50	188	150	560
Spain	50	191	100	384
Sweden	50	192	100	384
Switzerland	50	190	200	760
The Netherlands		150		384
Turkey	50	192	100	384
USA (ACGIH)	20	75		
USA (NIOSH)	100	375	150	560
USA (OSHA)	200		300	
United Kingdom	50	191	100	384

Ingredients with biological monitoring guidance values (BMGV) and/or biological exposure index (BEI):

Toluene
CAS No. 108-88-3

BEI: 0.03 mg toluene/L urine (end of shift)

8.2 Exposure controls

Engineering controls

Provide adequate local exhaust ventilation. Use explosion-proof electrical/ventilating/lighting equipment. Maintain eye wash fountain and safety shower in work area.

Personal protective equipment

General protective and hygienic measures

Do not eat, drink, or smoke while using. Wash hands before breaks and at the end of workday. Immediately remove all soiled or contaminated clothing.

Eye and face protection

Chemical safety glasses with side shields, goggles or face shield are recommended. Eye wash stations are recommended for the work area.

Skin and body protection

Wear chemical resistant clothing and shoes. Safety showers are recommended for the work area.

Respiratory protection

Provide sufficient general and/or local exhaust. If engineering controls are not sufficient to protect worker health use a respirator approved under applicable regulatory standards.

Hand protection

Wear chemical resistant impervious gloves. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves.

Environmental controls

Prevent product from entering drains. Stop spill at source and prevent further leakage or spillage if safe to do so. If product contaminates rivers and lakes or drains, notify proper authorities.

SECTION 9. Physical and chemical properties

Physical state	: Liquid
Physical form	: Liquid
Colour	: Pale Yellow
Odour	: Solvent
Odour threshold	: No data available
Melting point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: 116 °C – 138 °C (240 °F – 280 °F)
Flammability	: Flammable liquid
Upper flammability limit	: No data available
Lower flammability limit	: No data available
Flash point	: -3 °C (26 °F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No data available
Viscosity	: < 15 cP
Solubility (water)	: Not soluble
Partition coefficient n-octanol/water (log value)	: No data available
Vapour pressure	: No data available
Relative density at 24 °C (water = 1)	: 0.72 - 0.76
Volatile organic compounds (VOC)	
VOC - actual	: 739 g/L
VOC less water & exempt solvents	: 739 g/L

10.1 Reactivity

Not reactive under normal conditions of use.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Avoid heat, sparks, open flames, hot surfaces, or other sources of ignition.

10.5 Incompatible materials

Oxidizing agents, strong acids

10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage. Combustion will produce carbon oxides, hydrocarbons, aldehydes.

SECTION 11. Toxicological Information

Acute toxicity : Not classified

LD/LC50 values that are relevant for classification:

Solvent naphtha (petroleum), light aliphatic
CAS No. 64742-89-8

Oral	LD50	rat	> 2000 mg/kg
Dermal	LD50	rat	> 2000 mg/kg
Inhalative	LC50	rat	> 7700 pp/4h

Skin corrosion/irritation : Causes skin irritation.
 Serious eye damage/irritation : Not classified
 Respiratory or skin sensitisation : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 STOT-single exposure : May cause drowsiness or dizziness.
 STOT-repeated exposure : Causes damage to the central nervous system through prolonged or repeated exposure.
 Aspiration hazard : May be fatal if swallowed and enters airway

SECTION 12: Ecological information

12.1 Toxicity : No data available
Expected to be inherently biodegradable. : No data available
12.3 Bioaccumulative potential : No data available
12.4 Mobility in soil : No data available
12.5 Other adverse effects : Hazardous for water. Dangerous to drinking water even in small quantities. Harmful to fish and aquatic organisms.
12.6 General notes : No data available

SECTION 13. Disposal considerations**13.1 Waste treatment methods**

Dispose of in accordance with regional, national, and local laws and regulations.

Material disposal : Do not dispose of waste into sewer. Do not contaminate ponds, waterways, or ditches with product or used container. Send to a licensed waste management company.

Container disposal : Empty remaining contents. Dispose of as unused product. Do not reuse empty containers.

SECTION 14. Transport information**14.1 UN number**

UN1866

14.2 UN proper shipping name

DOT : RESIN SOLUTION
 ADR : RESIN SOLUTION
 IMDG : RESIN SOLUTION (stoddard solvent), MARINE POLLUTANT

IATA : RESIN SOLUTION

14.3 Transport hazard class

3

14.4 Packing group

II

14.5 Environmental hazards

MARINE POLLUTANT

14.6 Special precautions for user

EmS: F-E, S-E

Stowage category: B

Kemler code: 33

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Limited Quantity: 5.0 L

Limited Quantity: 5.0 L

Tunnel code: D/E

SECTION 15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No information available for this material. Information provided is for components.

OSHA Hazard Communication Standard

This material is hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200

Superfund Amendments and Reauthorization Act (SARA)**SARA 302 Components**

No data available

SARA 311/312 Hazard Categories

No information available for this material. Information provided is for components.

SARA 313 Components

Toluene (CAS No. 108-88-3); 1,2,4-trimethylbenzene (CAS No. 95-63-6)

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

Toluene (CAS No. 108-88-3), RQ = 1000 pounds

California Proposition 65

WARNING: This product can expose you to chemicals including naphthalene and ethylbenzene, which are known to the State of California to cause cancer and toluene, which is known to the State of California to cause birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov.

This product contains the following Right to Know components:**Component**

Stoddard solvent (CAS No. 8052-41-3)

Toluene (CAS No. 108-88-3)

Naphthlene (CAS No. 91-20-3)

Ethyl benzene (CAS No. 100-41-4)

U.S. State Right to Know list

: Massachusetts, New Jersey, Pennsylvania

: Massachusetts, New Jersey, Pennsylvania

: Massachusetts, New Jersey, Pennsylvania

: Massachusetts, New Jersey, Pennsylvania

International Agency for Research on Cancer (IARC)

This product contains the following chemicals classified by IARC as carcinogenic:

Toluene

CAS No. 108-88-3

Group 3

Naphthalene

CAS No. 91-20-3

Group 2B

Ethylbenzene

CAS No. 100-41-4

Group 2B

Chemical inventories

Components are listed or exempted from listing on the following chemical inventories:

AICS	Australian Inventory of Chemical Substances
DSL / NDSL	Domestic Substances List / Non-Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ENCS	Existing and New Chemical Substances
IECS	Inventory of Existing Chemical Substances Produced or Imported in China
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substances Control Act

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

SECTION 16. Other information

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. REXCO MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate this product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
Acute Tox. 4	Acute toxicity - Category 4
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGS	Committee on Hazardous Substances
Aquatic Chronic 2	Chronic aquatic toxicity - Category 2
Aquatic Chronic 3	Chronic aquatic toxicity - Category 3
Asp. Tox. 1	Aspiration hazard - Category 1
CAS	Chemical Abstract Service
DFG	German Research Foundation
DOT	U.S. Department of Transportation
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
Flam. Liq. 2	Flammable liquids - Category 2
Flam. Liq. 3	Flammable liquids - Category 3
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
JSOH	Japanese Society for Oral Health
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
LTEL	Long term exposure limit
NIOSH	National Institute for Occupational Safety and Health

OSHA	U.S. Occupational Safety and Health Administration
OSHA HCS	OSHA HCS
PBT	Persistent, Bioaccumulative and Toxic
Skin Irrit. 2	Skin corrosion/irritation - Category 2
STEL	Short term exposure limit
STOT RE 1	Specific target organ toxicity (repeated exposure) - Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) - Category 2
STOT SE 3	Specific target organ toxicity (single exposure) - Category 3
vPvB	very Persistent and very Bioaccumulative