SDS Revision Date: 04/01/2020

### 1. Identification

1.1. Product identifier

Product Identity XX-1346 Marking Fluid, all but Black, Red, Brown
Alternate Names XX-1346 Marking Fluid, all but Black, Red, Brown

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

**Intended use** See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Carco, Inc

10333 Shoemaker P.O. Box 13859

Detroit, Michigan, USA 48213

**Emergency** 

**24** hour Emergency Telephone No. ChemTel 1-800-255-3924 (MIS0001475)

International +01-813-248-0585

**Customer Service: Carco, Inc** Phone +1 (313) 925-9000

Fax +1 (313) 925-9602 Email: sales@carcousa.net

## 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Flam. Liq. 2;H225 Highly Flammable liquid and vapor.

Eye Dam. 2A;H319 Causes serious eye irritation.

STOT SE 3;H336 May cause drowsiness or dizziness.

2.2. Label elements



#### **Danger**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

#### [Prevention]:

P210 Keep away from heat, sparks, open flames, and other ignition sources - No smoking.

P233 Keep container tightly closed.

P240 Ground, bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, light, equipment.

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P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, eye protection, face protection.

#### [Response]:

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

P304+312 IF INHALED: Call a poison center or doctor or physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.

P337+313 If eye irritation persists: Get medical advice or attention.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

#### [Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

#### [Disposal]:

P501 Dispose of contents or container in accordance with local and national regulations.

### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Acetone CAS Number: 0000067-64-1	75 - 100	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	
Titanium dioxide CAS Number: 0013463-67-7	5 - 10	Not Classified	
N-Butyl Acetate CAS Number: 0000123-86-4	1 - 5	Flam. Liq. 3;H226 STOT SE 3;H336	
Ethanol CAS Number: 0000064-17-5	1 - 5	Flam. Liq. 2;H225	
Cellulose Nitrate CAS Number: 0009004-70-0	1 - 5	Flam. Sol. 1;H228	
Isopropyl Alcohol CAS Number: 0000067-63-0	1 - 5	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	
ETHYL ACETATE, EAC CAS Number: 0000141-78-6	1 - 5	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

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#### Section 4. First aid measures

#### 4.1. Description of first aid measures

**General** In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

**Inhalation** Move the exposed person to fresh air at once. If not breathing, give artificial respiration. If breathing

is difficult, give oxygen. Get medical attention if any discomfort continues.

**Eves** Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with

plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical

attention if any discomfort continues.

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin

cleanser.

Ingestion DO NOT INDUCE VOMITING! If swallowed, vomiting may occur spontaneously. If vomiting

occurs, keep head below hips to prevent aspiration into lungs. Rinse mouth thoroughly. Get medical

attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Overview Treat symptomatically. Exposure to solvent vapor concentrations from the component solvents in

excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness,

drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. Check section 2.2 (GHS Label Elements) for further details.

**Inhalation** May cause drowsiness or dizziness.

**Eyes** Causes serious eye irritation.

### Section 5. Fire-fighting measures

#### 5.1. Extinguishing media

Use foam, extinguishing powder, dry chemicals, or carbon dioxide. Water may be ineffective. Water may be used to keep fire exposed containers cool.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: None

Keep away from heat, sparks, open flames, and other ignition sources - No smoking.

Keep container tightly closed.

Ground, bond container and receiving equipment.

Use explosion-proof electrical, ventilating, light, equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust, fume, gas, mist, vapors, spray.

#### **5.3.** Advice for fire-fighters

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In the event of fire, wear full protective clothing and NIOSH Approved Self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapors.

ERG Guide No. 129

#### Section 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit before re-entering.

#### **6.2.** Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.3. Methods and material for containment and cleaning up

Avoid sparks, flames, heat and smoking. Ventilate. Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers.

**Small Spill:** Use a non-combustible material like vermiculite, sand or earth to soak up product and place in a container for later disposal.

### Section 7. Handling and storage

#### 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Keep in containers lightly closed in a cool, well ventilated place. Do not store with oxidizing agents or acids. Keep in the original container. Avoid direct sunlight

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry area, away from heat, sparks and open flame.

Keep containers sealed when not in use.

Store out of direct sunlight.

Store in a cool dry place.

Incompatible materials: Store away from oxidizers and acids.

Check section 2.2 (GHS Label Elements) for further details. - [Storage]:

#### 7.3. Specific end use(s)

No data available.

### Section 8. Exposure controls / personal protection

#### 8.1. Control parameters

#### **Exposure**

CAS No.	Ingredient	Source	Value
0000064-17-5	Ethanol	OSHA	TWA 1000 ppm (1900 mg/m3)
		ACGIH	No Established Limit
		NIOSH	TWA 1000 ppm (1900 mg/m3)
0000067-63-0	Isopropyl Alcohol	OSHA	TWA 400 ppm (980 mg/m3) STEL 500 ppm
		ACGIH	TWA: 200 ppm STEL: 400 ppm
		NIOSH	TWA 400 ppm (980 mg/m3) ST 500 ppm (1225 mg/m3)
0000067-64-1	Acetone	OSHA	TWA 1000 ppm (2400 mg/m3) STEL 2400 mg/m3
		ACGIH	TWA: 500 ppm STEL: 750 ppm
		NIOSH	250 ppm (590 mg/m3) TWA
0000123-86-4 N-Butyl Acetate		OSHA	TWA 150 ppm (710 mg/m3
		ACGIH	TWA: 150 ppm, STEL 200 ppm
		NIOSH	TWA 150 ppm (710 mg/m3) ST 200 ppm (950 mg/m3)
0000141-78-6	ETHYL ACETATE, EAC	OSHA	TWA 400 ppm (1400 mg/m3)
		ACGIH	TWA: 150 ppm
		NIOSH	TWA 400 ppm (1400 mg/m3)
0009004-70-0 Cellulose Nitrate		OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0013463-67-7	Titanium dioxide	OSHA	TWA 15 mg/m3
		ACGIH	TWA: 10 mg/m3
		NIOSH	Footnote ca

0.4. EXDOSUITE CONTROL	8.2.	Exposure	controls	š
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**Respiratory** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection

is required for certain operations, use an approved air-purifying respirator. The following should be

effective types of air purifying respirators: Organic vapor cartridge.

Eyes Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good

workplace practice.

**Skin** Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts

of the body should be washed after contact. Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Polyethylene/ethyl vinyl alcohol laminate ("PE/EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene

rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton

**Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of

local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory

protection must be worn.

Other Work Practices Do not smoke, or drink in work area. Keep away from foodstuffs and beverages. Avoid contact with

eyes and skin.

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Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details.

### Section 9. Physical and chemical properties

Appearance Colored Liquid
Odor Sweet acetone
Odor threshold Not determined
pH Not Measured
Melting point / freezing point Not Measured
Initial boiling point and boiling range 56 C 132 F

Flash Point -18C 0F Method (Setaflash)

**Evaporation rate (Ether = 1)**5.2 (BU.AC=1) **Flammability (solid, gas)**Not Applicable

**Upper/lower flammability or explosive limits Lower Explosive Limit:** 2.6 (% in air)

**Upper Explosive Limit:** 12.8 (% in air)

**Vapor pressure (Pa)** < 185 (mm Hg) **Vapor Density** > 2 (air=1)

**Relative Density** 0.810 g/mL Temperature (C) 20

Solubility in WaterNot MeasuredPartition coefficient n-octanol/water (Log Kow)Not MeasuredAuto-ignition temperatureNot MeasuredDecomposition temperatureNot MeasuredViscosity (cSt)Not Measured

**VOC Content** 94 wt-% Approximately 6.4 lbs/gal

% **Volatile** 75-85% (%-wt)

**9.2. Other information**No other relevant information.

## Section 10. Stability and reactivity

#### 10.1. Reactivity

Hazardous Polymerization will not occur.

#### 10.2. Chemical stability

Stable under normal circumstances.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

High temperatures and fires.

#### 10.5. Incompatible materials

Store away from oxidizers and acids.

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#### 10.6. Hazardous decomposition products

None

### Section 11. Toxicological information

#### Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Acetone - (67-64-1)	5,800.00, Rat -	7,426.00, Rabbit -	76.00, Rat -	50.10, Rat -	No data
	Category: NA	Category: NA	Category: NA	Category: NA	available
Titanium dioxide - (13463-67-7)	>25,000.00, Rat -	No data	No data	6.82, Rat -	No data
	Category: NA	available	available	Category: NA	available
N-Butyl Acetate - (123-86-4)	10,760.00, Rat -	17,600.00, Rabbit	No data	No data	No data
	Category: NA	- Category: NA	available	available	available
Ethanol - (64-17-5)	10,470.00, Rat -	17,100.00, Rabbit	124.70, Rat -	No data	No data
	Category: NA	- Category: NA	Category: NA	available	available
Cellulose Nitrate - (9004-70-0)	5,000.00, Mouse -	No data	No data	No data	No data
	Category: 5	available	available	available	available
Isopropyl Alcohol - (67-63-0)	5,840.00, Rat -	16,400.00, Rabbit	72.60, Rat -	No data	No data
	Category: NA	- Category: NA	Category: NA	available	available
ETHYL ACETATE, EAC - (141-78-6)	4,934.00, Rat -	20,001.00, Rabbit	58.60, Rat -	No data	No data
	Category: 5	- Category: NA	Category: NA	available	available

#### **Carcinogen Data**

CAS No.	Ingredient	Source	Value	
0000064-17-5	Ethanol	OSHA	Regulated Carcinogen: No	
		NTP	Known: No; Suspected: No	
		IARC	Group 1: Yes; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;	
		ACGIH	A3	
0000067-63-0	Isopropyl Alcohol	OSHA	Regulated Carcinogen: No	
		NTP	Known: No; Suspected: No	
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;	
		ACGIH	A4	
0000067-64-1	Acetone	OSHA	Regulated Carcinogen: No	
		NTP	Known: No; Suspected: No	
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;	

AC		ACGIH	A4						
0000123-86-4	N-Butyl Acetate	OSHA		gulated Carcinogen: No					
		NTP	_	Suspected: No					
		IARC		Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;					
		ACGIH	No Establish	No Established Limit					
0000141-78-6	ETHYL ACETATE, EAC	OSHA	Regulated C	cinogen: No					
		NTP	Known: No; Suspected: No						
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;						
		ACGIH	No Established Limit						
0009004-70-0 Cellulose Nitrate		OSHA		arcinogen: No					
		NTP	Known: No; Suspected: No						
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No Established Limit						
		ACGIH							
0013463-67-7	Titanium dioxide	OSHA	Regulated Carcinogen: No						
		NTP	Known: No; Suspected: No						
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;						
			ACGIH A4						
Classification		Ca	tegory	Hazard Description					
Acute toxicity (oral)				Not Applicable					
Acute toxicity (dermal)				Not Applicable					
Acute toxicity (inhalation)				Not Applicable					
Skin corrosion/irritation				Not Applicable					
Serious eye d	amage/irritation		2A	Causes serious eye irritation.					
Respiratory se	ensitization			Not Applicable					
Skin sensitiza	ition			Not Applicable					
Germ cell mu	tagenicity			Not Applicable					
Carcinogenicity				Not Applicable					
Reproductive	toxicity			Not Applicable					
STOT-single	exposure		3	May cause drowsiness or dizziness.					
STOT-single	exposure			Not Applicable					
STOT-repeat	ed exposure			Not Applicable					
Aspiration hazard				Not Applicable					

# **Section 12. Ecological information**

#### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### **Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l	
Acetone - (67-64-1)	8,120.00, Pimephales promelas	8,800.00, Daphnia pulex	7,000.00 (96 hr), Pseudokirchneriella subcapitata	
Titanium dioxide - (13463-67-7)	294.00, Oryzias latipes	501.00, Daphnia magna	101.00 (72 hr), Pseudokirchneriella subcapitata	
N-Butyl Acetate - (123-86-4)	18.00, Pimephales promelas	44.00, Daphnia sp	246.00 (72 hr), Pseudokirchnerella subcapitata	
Ethanol - (64-17-5)	15,400.00, Lepomis macrochirus	> 10,000, Daphnia magna	17.921 (96 hr), Ulva pertusa	
Cellulose Nitrate - (9004-70-0)	Not Available	Not Available	579.00 (96 hr), Pseudokirchneriella subcapitata	
Isopropyl Alcohol - (67-63-0)	10,000.00, Pimephales promelas	Not Available	Not Available	
ETHYL ACETATE, EAC - (141-78-6)	230.00, Pimephales promelas	100.00, Daphnia magna	101.00 (72 hr), Desmodesmus subspicatus	

#### 12.2. Persistence and degradability

There is no data available on the preparation itself.

#### 12.3. Bioaccumulative potential

Not Measured

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

#### 12.6. Other adverse effects

No data available.

## Section 13. Disposal considerations

#### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

### **Section 14. Transport information**

**DOT (Domestic Surface** IMO / IMDG (Ocean ICAO/IATA **Transportation**) **Transportation**) UN1210 UN1210 **14.1. UN number** UN1210 14.2. UN proper shipping Printing ink Printing ink Printing ink name **DOT Hazard Class:** 3 Air Class: 3 14.3. Transport hazard **IMDG:** 3 class(es) Sub Class: Not Applicable 14.4. Packing group II II II

14.5. Environmental hazards

IMDG Marine Pollutant: No;

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#### 14.6. Special precautions for user

Not Applicable

### **Section 15. Regulatory information**

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are

represented.

**Toxic Substance Control** All components of this material are either listed or exempt from listing on the TSCA Inventory.

Act (TSCA)

**Note:** Ethanol (Ethyl alcohol) has been placed on the California Proposition 65 Cancer and Developmental Lists when in alcoholic beverages.

#### **EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **EPCRA 313 Toxic Chemicals:**

Ethanol

Isopropyl Alcohol

#### **Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### Section 16. Other information

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H228 Flammable solid.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

This product is RoHS and REACH compliant. It does not contain any of the RoHS listed substances. It does not contain any chemical from the candidate list of Substances of Very High Concern (SVHC), Annex XIV, or Annex XVII of Reach.

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This information is based on our present knowledge. However, it does not constitute a guarantee for any specific product properties.

Carco urges the recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. The use of this product is beyond the control Carco or its distributor, therefore, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product.

End of Document