

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 12/31/2014 Supersedes: 08/29/2014

Date of issue: 12/31/2014

# **DURATEC COATING VOC**

# 702-003 **BLACK SURFACE PRIMER**

The Composites Fabricators Association in association with the EPA conducted a study of styrene emissions from open mold composite manufacturing. Styrene monomer is a volatile liquid that will react to form a non-volatile copolymer with unsaturated polyester resins. The value to determine is thus the amount of material lost prior to the completion of the reaction. The data gathered in this study is the actual measurement of emissions based on the percent styrene in the coating and the application method chosen. It was shown that the non-atomizing applications (such as brushing or roll coating) emit much less than the atomizing application (spraying). Using the data from this study, a Unified Emissions Factor (UEF) table was prepared.

Dura Technologies, Inc. considers this to be the best available science for calculating the emissions of coatings containing styrene monomer. We will therefore report three distinct VOC numbers. The VOC reported in section III of the MSDS is based on 100% evaporation of the styrene. This attachment will report the VOC calculated using the UEF factors for atomized application and non-atomized application.

# ATOMIZED APPLICATION

**COATING VOC: 2.25** LB/GAL (269.7 GR/LITER) LB/GAL (269.7 **GR/LITER**) **MATERIAL VOC: 2.25** 

# NON-ATOMIZED APPLICATION

**COATING VOC: 1.73 LB/GAL (207 GR/LITER**) **MATERIAL VOC: 1.73 LB/GAL (207** GR/LITER)

For some applications, this product may not be compliant if applied using atomizing techniques. Please consult the AQMD rule that applies to you operation and determine which application method will comply.

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Product form Mixture

Trade name : BLACK SURFACE PRIMER

CAS No mixture 702-003 Product code Formula

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

Use of the substance/mixture : COATING

#### Details of the supplier of the safety data sheet

Dura Technologies, Inc. 2720 South Willow Avenue #A Bloomington, CA 92316

909.877.8477

ChemTrec US: 800.424.9300 ChemTrec Int: +1 70 3527 3887

#### 1.4. Emergency telephone number

ChemTrec US: 800.424.9300 Int: +1 70 3527 3887 Emergency number

CHEMTREC: 1-800-424-9300

## SECTION 2: Hazards identification

#### Classification of the substance or mixture

#### Classification (GHS-US)

Flam, Liq. 3 H226 Skin Irrit. 2 H315 Eye Irrit, 2A H319

Carc, Not classified

#### Label elements 2.2.

# **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS02

GHS07

Signal word (GHS-US) Warning

Hazard statements (GHS-US) H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation

Precautionary statements (GHS-US)

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P264 - Wash exposed areas, thoroughly after handling P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P321 - Specific treatment (see none listed, on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention

P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P370+P378 - In case of fire: Use carbon dioxide (CO2), dry chemical powder, foam to

extinguish

P403+P235 - Store in a well-ventilated place. Keep cool

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P501 - Dispose of contents/container to in accordance with local, state, and federal regulations.

#### 2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

# SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2, Mixture

Name	Product Identifier	%	Classification (GHS-US)
Proprietary Resin	(CAS No) TRADE SECRET	<= 35	Not classified
talc	(CAS No) 14807-96-6	<= 33	Not classified
slyrene, inhibited	(CAS No) 100-42-5	<= 21	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalalion:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351
cobalt(II) 2-ethylhexanoate	(CAS No) 136-52-7	<= 0.5	Carc. 2, H351

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general

- Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation
- : Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
- First-aid measures after skin contact
- Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing, Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: wash throughly for five minutes, seek medical attention. Get medical advice/attention. Specific treatment (see seek medical attention, on this label).
- First-aid measures after eye contact
- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: SEEK IMMEDIATE MEDICAL ATTENTION. Get medical advice/attention.
- First-aid measures after ingestion
- Rinse mouth. Do NOT induce vomiting, Obtain emergency medical attention.

## 4,2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

- : May cause genetic defects (avoid skin contact and inhalation.). May cause cancer (avoid skin contact and inhalation.).
- Symptoms/injuries after inhalation
- Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

Symptoms/injuries after skin contact

- : Causes skin irritation.
- Symptoms/injuries after eye contact
- : Causes serious eye irritation.

# 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard

: Highly flammable liquid and vapor.

Explosion hazard

: May form flammable/explosive vapor-air mixture.

Reactivity

: No reactivity hazard other than the effects described in sub-sections below.

### 5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

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Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection,

# SECTION 6: Accidental release measures

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

General measures

6.1.1.

 Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

For non-emergency personnel

Protective equipment

Gloves. Protective goggles. Protective clothing.

Emergency procedures

Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures

: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment

: Dam up the liquid spill. Contain released substance, pump into suitable containers.

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed

Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing DUST, FUMES, MIST, OR VAPORS. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all

ignition sources if safe to do so.

Hygiene measures

: Wash HANDS thoroughly after handling.

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

Technical measures

 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : HEAT SPARKS

OR OPEN FLAMES. Keep in fireproof place. Keep container tightly closed.

Incompatible products

: Strong bases, strong acids.

Incompatible materials

: Sources of ignition. Direct sunlight. Heat sources.

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

No additional information available

## SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

styrene, inhibited (100-42-5)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA ACGIH	ACGIH STEL (ppm)	40 ppm

talc (14807-96-6)		
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³

# 8.2. Exposure controls

Appropriate engineering controls

Ensure exposure is below occupational exposure limits (where available).

Personal protective equipment

Avoid all unnecessary exposure.

Hand protection

Wear protective gloves.

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Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection 

§ Wear approved mask.

Other information When using, do not eat, drink or smoke.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Black. Odor : characteristic. Odor threshold : No data available pΗ : No data available No data available Relative evaporation rate (butyl acetate=1) Melting point : No data available Freezing point : No data available : >= 64.4 °C Boiling point Flash point : >= -6.67 °C Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available

Relative density : ≥ 1.3

Solubility : No data available : No data available Log Pow Log Kow : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive properties : No data available : No data available Oxidizing properties Explosive limits : No data available

#### 9.2. Other information

Relative vapor density at 20 °C

No additional information available

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

## 10,2. Chemical stability

Polymerization can result in formation of solid deposits, even in vapour space. Not established. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

: No data available

# 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

## 10.5. Incompatible materials

strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide, Carbon dioxide. May release flammable gases.

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

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BLACK SURFACE PRIMER (\f)mixture	
ATE CLP (dust, mist)	1.500 mg/V4h
styrene, inhibited (100-42-5)	
LD50 oral rat	5000 mg/kg (>6000 mg/kg bodyweight; Rat; Rat)
LD50 dermal rat	2820 mg/kg (>2000 mg/kg bodyweight; Rat; Rat; Experimental value)
LD50 dermal rabbit	5010 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	12 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	2770 ppm/4h (Rat)
ATE CLP (oral)	5000.000 mg/kg body weight
ATE CLP (dermal)	2820.000 mg/kg body weight
ATE CLP (gases)	2770.000 ppmV/4h
ATE CLP (vapors)	12,000 mg/l/4h
ATE CLP (dust, mist)	12.000 mg/l/4h
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	Not classified.
styrene, inhibited (100-42-5)	
IARC group	2B - Possibly Carcinogenic to Humans
talc (14807-96-6)	
IARC group	3 - Not classifiable
cobalt(II) 2-ethylhexanoate (136-52-7)	
IARC group	2B - Possibly Carcinogenic to Humans
Reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	Not classified
	*
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met
Assiration hozord	Not classified
Aspiration hazard	
	Based on available data, the classification criteria are not met
	Harmful if inhaled.
Potential Adverse human health effects and	
symptoms	Danger of serious damage to health by prolonged exposure through inhalation. Harmful if
	Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
symptoms	

# SECTION 12: Ecological information

# 12.1. Toxicity

styrene, Inhibited (100-42-5)		
LC50 fish 1	25 mg/l (96 h; Lepomis macrochirus)	
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)	
EC50 Daphnia 1	23 mg/l (48 h; Daphnia magna; LOCOMOTOR EFFECT)	
LC50 fish 2	32 mg/l (96 h; Pimephales promelas)	
EC50 Daphnia 2	27 mg/l (24 h; Daphnia magna)	
TLM fish 1	25.1 mg/l (96 h; Lepomis macrochirus; SOFT WATER)	
TLM fish 2	46.4 mg/l (96 h; Pimephales promelas; SOFT WATER)	
TLM other aquatic organisms 1	10 - 100,96 h	
Threshold limit other aquatic organisms 1	10 - 100,96 h; Pseudomonas putida	
Threshold limit other aquatic organisms 2	72 mg/l	

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styrene, inhibited (100-42-5)	> 200 and (402 by Second complete world by INILIDITODY)	
Threshold limit algae 1	> 200 mg/l (192 h; Scenedesmus quadricauda; INHIBITORY)	
Threshold limit algae 2	67 mg/l (Microcystis aeruginosa; INHIBITORY)	
talc (14807-96-6)	ACCURATE DE LA	
LC50 fish 1	> 100 g/l (24 h; Brachydanio rerio; INTERMITTENT FLOW)	
2.2. Persistence and degradability		11 4
BLACK SURFACE PRIMER (mixture)		U. V
Persistence and degradability	Not established.	
styrene, inhibited (100-42-5)		8 1
Persistence and degradability	Readily biodegradable in water. Not readily biodegradable in water. Forming sediments water. Non degradable in the soil. Adsorbs into the soil. Photodegradation in the air. Not established.	in :
Chemical oxygen demand (COD)	2.80 g O²/g substance	
ThOD	3.07 g O²/g substance	
BOD (% of ThOD)	0.42 % ThOD	
Proprietary Resin (TRADE SECRET)		
Persistence and degradability	Not established,	
talc (14807-96-6)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
cobalt(II) 2-ethylhexanoate (136-52-7)		· P
Persistence and degradability	Biodegradability in water: no data available.	
2.3. Bioaccumulative potential		Mari
BLACK SURFACE PRIMER (mixture)		2 1
Bioaccumulative potential	Not established.	
styrene, inhibited (100-42-5)	12 - 77 (QSAR)	
BCF fish 1 BCF fish 2	35.5 (Carassius auratus)	
Log Pow	2.95 - 3.16 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.	
Proprietary Resin (TRADE SECRET)		
Bioaccumulative potential	Not established.	
		I FOR
cobalt(II) 2-ethylhexanoate (136-52-7)	No bioaccumulation data available.	
Bioaccumulative potential	TTO DIVACCUITUIALIUTI UALA AVAIIADIE.	
I2.4. Mobility in soil		30774
styrene, inhibited (100-42-5)		1,,210
Surface tension	0.032 N/m (19 °C)	
10.5	SIL EN TIVAS STADE	
12.5. Other adverse effects	Avoid release to the environment.	
Other information	A Avoid release to the environment.	
SECTION 13: Disposal considera	itions	1
13.1. Waste treatment methods		8 (3)
Naste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to approved disposal site.	
Additional information	Handle empty containers with care because residual vapors are flammable.	
Ecology - waste materials	: Avoid release to the environment.	
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# SECTION 14: Transport information

In accordance with DOT

UN-No.(DOT) UN1263
DOT Proper Shipping Name PAINT

Department of Transportation (DOT) Hazard

Classes

Hazard labels (DOT) 3 - Flammable liquid



3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger

Additional information

ADR

Transport document description UN 1263, 3, II, (D/E)

Packing group (ADR)

Class (ADR) 3 - Flammable liquid

Hazard identification number (Kemler No.) 33
Classification code (ADR) F1

Danger labels (ADR) 3 - Flammable liquids



Orange plates

30 1263

Tunnel restriction code : D/E LQ : 5L

Excepted quantities (ADR) E2

Transport by sea

UN-No. (IMDG) : 1263
Proper Shipping Name (IMDG) : paint

Class (IMDG) 3 - Flammable liquids

Packing group (IMDG) II - substances presenting medium danger

Air transport

UN-No.(IATA) : 1263
Proper Shipping Name (IATA) : paint

Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

# SECTION 15: Regulatory information

15.1. US Federal regulations

styrene, inhibited (100-42-5)		The state of the s	
RQ (Reportable quantity, section 304 of EPA's List of Lists):	1000 lb		

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styrene, inhibited (100-42-5)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Reactive hazard Fire hazard Delayed (chronic) health hazard

#### 15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2
Acute Tox. 4 (Inhalation:dust,mist)
Skin Irrit. 2
H315
Eye Irrit. 2
Muta. 1B
Carc. 1B
H340
Carc. 1B
Full text of H-phrases: see section 16

# Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.2; R45 Muta.Cat.2; R46 F; R11 Xn; R20 Xi; R36/38

Full text of R-phrases: see section 16

### 15,2.2. National regulations

# styrene, inhibited (100-42-5)

Listed on EPA's Hazardous Air Pollutants (HAPS)

# 15.3. US State regulations

U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
		-		

## styrene, inhibited (100-42-5)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

## SECTION 16: Other information

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE
COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and
mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information None.

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Full text of H-phrases; see section 16:

Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Carc, 2	Carcinogenicity Category 2
Carc. Not classified	Carcinogenicity Not classified
Eye Irrit, 2A	Serious eye damage/eye irritation Category 2A
Flam, Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer

NFPA health hazard

2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard

3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity

2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive

mixtures with water.



**HMIS III Rating** 

Health

2 Moderate Hazard - Temporary or minor injury may occur

Flammability

3 Serious Hazard

Physical

1 Slight Hazard

Personal Protection

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SDS US (GHS HazCom 2012)

To the best of our knowledge this SDS is accurate. The the extent allowed by law, this statement is made in lieu of an other warranties, expressed or implied including but not limited to any implied warranty of merchantability or fitness for a particular purpose and is in lieu of any other obligations or liability on the part of Dura Technoligies, Inc.