

# Safety Data Sheet (SDS)

## Coating Systems Laboratories, Inc.

### DiamondClear® TPS Protectant & Restorative

SDS Number: 321

Revision Date: 5/30/2015

Page 1 of 9

## 1 PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

Coating Systems Laboratories, Inc.  
211 E. Chilton Dr.  
Chandler, AZ 85225

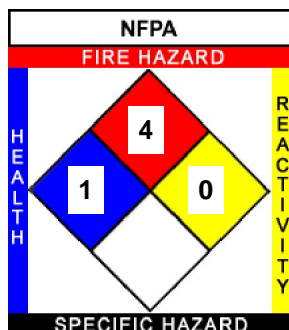
**Contact:** Coating Systems Laboratories, Inc.  
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**Fax:** (480) 503-4628  
**Email:** info@coatingsystemslaboratories.com  
**Web:** www.coatingsystemslaboratories.com

**Product Name:** DiamondClear® TPS Protectant & Restorative  
**Revision Date:** 5/30/2015  
**Version:** 1.00  
**SDS Number:** 321  
**Common Name:** Aqueous Coating Solution  
**CAS Number:** MIXTURE  
**Chemical Family:** Aqueous Solution  
**Chemical Formula:** \*\*\* PROPRIETARY \*\*\*  
**Synonyms:** TPS, Shasta Protect  
**Product Use:** Coating that protects pool, spa and hot tub waterlines from damage caused by calcium and scale buildup  
**Emergency Phone:** (480) 503-0267

## 2 HAZARDS IDENTIFICATION

NFPA:  
HMIS III:

Health = 1, Fire = 4, Reactivity = 0  
H1/F4/PH0



HMIS III	
HEALTH	1
FLAMMABILITY	4
PHYSICAL HAZARDS	0
PERSONAL PROTECTION G   Safety Glasses, Gloves, Vapor Respirator	

PERSONAL PROTECTION INDEX			
A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
A		n	
t		o	
u		p	
w		q	
y		r	
z		s	
Additional Information			

# Safety Data Sheet (SDS)

## Coating Systems Laboratories, Inc.

### DiamondClear® TPS Protectant & Restorative

SDS Number: 321

Revision Date: 5/30/2015

Page 2 of 9

GHS Signal Word:

DANGER

GHS Hazard Pictograms:



GHS Classifications:

- Physical, Flammable Liquids, 2
- Health, Aspiration hazard, 1
- Health, Skin corrosion/irritation, 2
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Health, Specific target organ toxicity - Single exposure, 3

GHS Phrases:

- H225 - Highly flammable liquid and vapor
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness

GHS Precautionary Statements:

- P240 - Ground/bond container and receiving equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P332+313 - If skin irritation occurs: Get medical advice/attention.
- P337+313 - If eye irritation persists: Get medical advice/attention.
- P370+378 - In case of fire: Use water spray, water fog, dry sand, dry chemical or alcohol-resistant foam for extinction.
- P403+233 - Store in a well ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P501 - Dispose of contents/container to an approved waste disposal plant.

# Safety Data Sheet (SDS)

## Coating Systems Laboratories, Inc.

### DiamondClear® TPS Protectant & Restorative

SDS Number: 321

Revision Date: 5/30/2015

Page 3 of 9

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients:

Cas #	Percentage	Chemical Name
8032-32-4	<95%	VM & P Naphtha
N/A	>5%	Proprietary, non-hazardous, non-regulated

## 4 FIRST AID MEASURES

- Inhalation:** Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
- Skin Contact:** Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. Remove contaminated clothing and wash before reuse. If reddening develops and/or persists, obtain medical attention. Wash contaminated clothing before reuse.
- Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do so. If irritation persists, obtain medical attention.
- Ingestion:** Rinse mouth with water. Do NOT induce vomiting unless instructed to do so. Material can enter lungs (aspiration hazard) during swallowing or vomiting resulting in lung inflammation or other lung injury. Never give anything by mouth to an unconscious person. Get immediate medical attention.

### Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11. Inhalation of high concentrations of this material, as could occur in enclosed spaces or improper use, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material has an aspiration hazard. Any potential danger from aspiration must be weighed against possible oral toxicity when determining whether to induce vomiting. Consider activated charcoal and/or gastric lavage.

### Indication of any immediate medical attention and special treatment needed:

No data available.

## 5 FIRE FIGHTING MEASURES

<b>Flammability:</b>	Flammable Liquid Class IB
<b>Flash Point:</b>	12 °C (54 °C)
<b>Flash Point Method:</b>	(TCC)
<b>Burning Rate:</b>	Not determined
<b>Autoignition Temp:</b>	Not determined
<b>LEL:</b>	0.9% (V)
<b>UEL:</b>	6.0% (V)

### Extinguishing Media:

Water Spray  
Water Fog  
Alcohol-Resistant Foam  
Dry Chemical  
Dry Sand

### Special Hazards Arising From the Substance or Mixture:

# Safety Data Sheet (SDS)

## Coating Systems Laboratories, Inc.

### DiamondClear® TPS Protectant & Restorative

SDS Number: 321

Revision Date: 5/30/2015

Page 4 of 9

Carbon Oxides  
Silicon Oxides  
Unburnt Hydrocarbon Particulate

#### Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

#### Further Information:

If incinerated, may release toxic fumes.

Use water spray to cool unopened containers.

Do NOT use high volume water jet to extinguish fire, as the force of the water jet may cause fire to spread.

Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

See Section 7 for more information on safe handling.

See Section 8 for more information on personal protection equipment.

See Section 13 for disposal information.

6

## ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment.

Keep from contacting skin or eyes.

Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

#### Environmental Precautions:

Prevent further release (leakage/spillage) if safe to do so.

Do not allow product to enter drains.

Do not allow to drain to environment.

#### Methods and Materials for Containments and Cleaning Up:

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

Place contaminated material into suitable, closed containers for disposal.

Dispose of contaminated material according to Section 13.

After spillage has been collected, area may be flushed with water or wet-brushed.

Ensure adequate ventilation.

#### Reference to Other Sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on proper disposal.

7

## HANDLING AND STORAGE

#### Handling Precautions:

Wear protective clothing.

Avoid breathing vapors or mist.

Avoid contact with eyes, skin, or clothing.

Keep containers closed when not in use.

Do not expose containers to open flame, excessive heat, or direct sunlight.

Keep away from sources of ignition.

Do not smoke while using material.

# Safety Data Sheet (SDS)

## Coating Systems Laboratories, Inc.

### DiamondClear® TPS Protectant & Restorative

SDS Number: 321

Revision Date: 5/30/2015

Page 5 of 9

Take measures to prevent the buildup of electrostatic charge.  
Use proper bonding/grounding during product transfer as described in document NFPA 77.  
Do not puncture or drop containers.  
Handle with care and avoid spillage on the floor (slippage).  
Keep material out of reach of children.  
Keep material away from incompatible materials.  
Wash thoroughly after handling.  
**DO NOT CUT, DRILL, GRIND OR WELD ON OR NEAR THIS CONTAINER.**

**Storage Requirements:** Keep container tightly closed.  
Avoid inhalation of vapors or mist upon opening container.  
Store in a well-ventilated place.  
Do not store at elevated temperatures.  
Do not store in direct sunlight.  
Store away from strong acids, strong bases, strong oxidizing agents, Halogens and alcohols.

8

### EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

**Personal Protective Equip:** Eye/face protection:  
When using material use safety glasses, gloves and vapor respirator according to HMIS PP, G. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection:  
Handle with gloves made from PVC, butyl-rubber, neoprene, nitrile or fluorinated-rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:  
Chemically resistant safety glasses and gloves are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:  
Use of a vapor respirator is highly recommended when working with material in poorly ventilated spaces. Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Respiratory protection must comply with 29 CFR 1910.134.

Control of environmental exposure:  
Prevent leakage or spillage if safe to do so. Do not let material enter drains.

### Components with workplace control parameters:

Component(s): VM & P Naphtha  
CAS No(s): 8032-32-4  
USA NIOSH (TWA/REL): 87.5 ppm  
USA NIOSH (C/REL): 450 ppm  
USA ACGIH (TWA/TLV): 300 ppm

# Safety Data Sheet (SDS)

## Coating Systems Laboratories, Inc.

### DiamondClear® TPS Protectant & Restorative

SDS Number: 321

Revision Date: 5/30/2015

Page 6 of 9

USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminants (TWA): 500 ppm

#### Biological occupational exposure limits:

Contains no reportable substances with biological occupational exposure limit values.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, colorless liquid	<b>Odor:</b>	Hydrocarbon
<b>Physical State:</b>	Liquid	<b>Molecular Formula:</b>	MIXTURE
<b>Odor Threshold:</b>	Not determined	<b>Solubility:</b>	Reacts
<b>Particle Size:</b>	Not determined	<b>Softening Point:</b>	Not determined
<b>Spec Grav./Density:</b>	~0.800 g/ml (6.68 lbs/gal)	<b>Percent Volatile:</b>	> 90%
<b>Viscosity:</b>	Not determined	<b>Heat Value:</b>	Not determined
<b>Sat. Vap. Conc.:</b>	Not determined	<b>Freezing/Melting Pt.:</b>	0.0 °C (32.0 °F)
<b>Boiling Point:</b>	121.0 °C (249.8 °F)	<b>Flash Point:</b>	12 °C (54 °C)
<b>Flammability:</b>	(solid, gas): Flammable Liquid Class IE	<b>Octanol:</b>	Not determined
<b>Partition Coefficient:</b>	Not determined	<b>Vapor Density:</b>	(air = 1): 4.1
<b>Vapor Pressure:</b>	(mm Hg @ 25 °C): 5	<b>VOC:</b>	~ 700 g/l
<b>pH:</b>	DNA	<b>Bulk Density:</b>	Not determined
<b>Evap. Rate:</b>	(N-Butyl Acetate = 1): < 1	<b>Auto-Ignition Temp:</b>	Not determined
<b>Molecular weight:</b>	MIXTURE	<b>UFL/LFL:</b>	Not determined
<b>Decomp Temp:</b>	Not determined		

## 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	Incompatibilities, flames, ignition sources.
<b>Materials to Avoid:</b>	Strong acids, strong bases, strong oxidizing agents, Halogens and alcohols.
<b>Hazardous Decomposition:</b>	Carbon Oxides and Silicon Oxides.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11 TOXICOLOGICAL INFORMATION

**Component(s):** VM & P Naphtha

**CAS No(s):** 8032-32-4

#### Acute Toxicity:

LD50 Oral - Rat: > 2,000 mg/kg

LD50 Dermal - Rabbit: > 3,350 mg/kg

LC50 Inhalation - Rat: > 25.3 mg/l (4 h)

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Eye Irritation:** Does not cause eye irritation.

**Respiratory or Skin Sensitation:** No data available.

**Germ Cell Mutagenicity:** No data available.

# Safety Data Sheet (SDS)

## Coating Systems Laboratories, Inc.

### DiamondClear® TPS Protectant & Restorative

SDS Number: 321

Revision Date: 5/30/2015

Page 7 of 9

**Carcinogenicity:** This product is or contains a component that is not classifiable as to its carcinogenicity to humans based on its IARC, ACGIH, NTP or OSHA classification (VM & P Naphtha).

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (VM & P Naphtha).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** No data available.

**Specific Target Organ Toxicity - Single Exposure:** Respiratory system - May cause drowsiness or dizziness.

**Specific Target Organ Toxicity - Repeated Exposure:** No data available.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Additional Information:**

Component: VM & P Naphtha; RTECS: OI6180000

12

### ECOLOGICAL INFORMATION

**Component(s):** VM & P Naphtha

**CAS No(s):** 8032-32-4

**Toxicity:**

*Toxicity to fish:*

No data available.

*Toxicity to daphnia and other aquatic invertebrates:*

No data available.

**Persistence and Degradability:**

Not readily biodegradable. Expected to biodegrade slowly, with aerobic and anaerobic biodegradation taking weeks to months.

**Bioaccumulative potential:**

Most of the hydrocarbon blocks comprising VM & P Naphtha have a  $\text{Log}_{10}K_{ow} > 3.0$ , indicating that these constituents have a potential to bioaccumulate.

**Mobility in Soil:**

No data available.

**Results of PBT and vPvB assessment:**

Not required/conducted.

**Other Adverse Effects:**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

# Safety Data Sheet (SDS)

## Coating Systems Laboratories, Inc.

### DiamondClear® TPS Protectant & Restorative

SDS Number: 321

Revision Date: 5/30/2015

Page 8 of 9

13

#### DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

14

#### TRANSPORT INFORMATION

DOT Class: Flammable Liquid (3) #3

UN #: UN 1139, Class: 3, Proper Shipping Name: Coating solution (containing VM & P Naphtha)

##### DOT (US)

UN Number: 1139

Class: 3

Packing Group: I

ERG #: 127

Proper Shipping Name: Coating solution (containing VM & P Naphtha)

Marine Pollutant: No

Poison Inhalation Hazard(s): No

##### IMDG

UN Number: 1139

Class: 3

Packing Group: I

EMS-No: F-E, S-E

Proper Shipping Name: Coating solution (containing VM & P Naphtha)

Marine Pollutant: No

##### IATA

UN Number: 1139

Class: 3

Packing Group: I

ERG #: 127

Proper Shipping Name: Coating solution (containing VM & P Naphtha)

Marine Pollutant: No





# Safety Data Sheet (SDS)

## Coating Systems Laboratories, Inc.

### DiamondClear® TPS Protectant & Restorative

SDS Number: 321

Revision Date: 5/30/2015

Page 9 of 9

15

#### REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

-----  
\*VM & P Naphtha (8032324 <95%) OSHAWAC, NJHS, PA, SARA311/312, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

-----  
NJHS = NJ Right-to-Know Hazardous Substances  
OSHAWAC = OSHA Workplace Air Contaminants  
PA = PA Right-To-Know List of Hazardous Substances  
SARA311/312 = SARA 311/312 Toxic Chemicals  
TSCA = Toxic Substances Control Act  
TXAIR = TX Air Contaminants with Health Effects Screening Level

16

#### OTHER INFORMATION

##### Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that Coating Systems Laboratories, Inc. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of Coating Systems Laboratories, Inc.'s control, Coating Systems Laboratories, Inc. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

##### Preparation Information:

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