

## SDS – Plasma Guard STV® (Anti-Rust Solution)

The Plasma Guard STV® is the ideal product to protect your STV®CNC Plasma Table's water pans, slats and the materials you cut. When concentration levels are maintained correctly, the anti-rust solution prevents rust and debris while offering a cooling process that lessens warping of materials and the presence of fumes in your workshop. [Click here to purchase.](#)



# SAFETY DATA SHEET

Date Issued : 09/24/2021  
PICO ID: F007671

## Plasma Guard STV®

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT TRADE NAME:** Plasma Guard STV®

**GENERAL CLASSIFICATION:** Water based coolant and conditioner **concentrate**

**PICO Chemical Corporation**  
400 E. 16th Street  
Chicago Heights, IL 60411  
Telephone: 708-757-4910  
Fax: 708-757-4940  
Website: [www.picochemical.com](http://www.picochemical.com)

**NFPA**



**HMIS**

1	HEALTH HAZARD
0	FLAMMABILITY
0	INSTABILITY
	PROTECTIVE EQUIPMENT

### 2. HAZARDS IDENTIFICATION

**GHS Classification of Mixture - OSHA/HCS Status**

EYE IRRITANT - Category 2B

No Pictogram	<b>SIGNAL WORD</b> Warning	<b>HAZARD STATEMENT</b> Causes eye irritation
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**Precaution Statements:**

Wash face, hands and any exposed skin thoroughly after handling.  
Observe good hygiene practices daily.

**Response Precaution Statements:**

**Eye Contact:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/ attention.

**Skin Contact:** If on skin, wash with plenty of soap and water.

**Ingestion:** If swallowed, rinse mouth. Do NOT induce vomiting.

**Inhalation:** If exposed or concerned, get medical advice/ attention.

### 3. COMPOSITION / IDENTITY INFORMATION

Chemical	CAS No.	Percent
Triethanol Borate	283-56-7	3 - 8%

The exact composition and percentages of materials present in this product are proprietary trade secrets and are withheld as provided for by OSHA Hazard Communication Rule 29 CFR 1910.1200.

### 4. FIRST AID MEASURES

**Eye Contact:**

Immediately flush the eyes with large amounts of water for at least 15 minutes. Remove contact lenses, if worn. If redness or irritation persists, seek medical attention.

**Skin Contact:**

Thoroughly wash with soap and water. Launder contaminated clothing before reuse.

**Ingestion:**

Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention if feeling unwell.



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**Inhalation:**

Remove the exposed person to fresh air. If breathing is difficult, seek medical attention immediately.

**First Aid Notes to Physician:**

No additional information is available.

#### 5. FIRE FIGHTING MEASURES

**Flash Point:** None

**LEL:** Not applicable

**Method Used:** Not applicable

**UEL:** Not applicable

**Flammability Classification:** Non-flammable

**Fire & Explosion Hazards:**

None expected.

**Decomposition Products:**

Upon decomposition, this product may emit oxides of carbon, nitrogen, and other organic vapors.

**Extinguishing Media:**

Use dry chemical, foam, carbon dioxide, and/or water fog.

**Special Fire-Fighting Procedure:**

None.

#### 6. ACCIDENTAL RELEASE MEASURES

Stop the flow of material, if this can be done without risk. Dike and prevent material from entering drains, sewers, or waterways. Absorb with dry/inert absorbent material, and transfer into recovery drum for disposal. Dispose of in accordance with local, state, and federal regulations.

#### 7. HANDLING AND STORAGE

**Handling:**

Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes. Use with adequate ventilation. Follow all SOS/label precautions. Observe good hygiene practices daily.

**Storage:**

Keep container closed when not in use. Store in a dry, well-ventilated place.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:**

**A. General Product Information**

Follow all applicable exposure limits.

**B. Component Exposure Limits**

No information is available for the product.

**Engineering Controls:**

Provide ventilation.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes/Face Protective Equipment:**

Wear appropriate eye protection to prevent eye contact.

**Skin Protection:**

Wear appropriate personal protective clothing to prevent prolonged or repeated skin contact, when necessary. The worker should practice good personal hygiene daily.



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#### Respiratory Protection:

If ventilation is not sufficient to effectively prevent build-up of mists or vapors, appropriate NIOSH/MSHA respiratory protection is required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b> Liquid	<b>Appearance:</b> Clear Blue
<b>Odor:</b> Mild	<b>Vapor Pressure:</b> 18 mm Hg @68°F (20°C)
<b>Vapor Density:</b> ND (air = 1)	<b>Boiling Point:</b> 212°F (100°C)
<b>Weight/Gallon:</b> 8.51 lbs. / gal. @ 77°F (25°C)	<b>pH (as is):</b> 9.0 pH
<b>Viscosity:</b> ND	<b>VOC:</b> 0.064 lbs. / gal.
<b>Solubility in Water:</b> Complete	<b>Evaporation Rate:</b> 0.40 (butyl acetate = 1)
<b>Percent Volatile:</b> ND	<b>Percent Solids:</b> ND

### 10. STABILITY AND REACTIVITY INFORMATION

#### Chemical Stability:

Stable under normal conditions.

#### Conditions to Avoid:

Avoid freezing.

#### Incompatibility:

Do not expose this product to excessive strong oxidizers.

#### Decomposition Products:

Upon decomposition, this product may emit oxides of carbon, nitrogen, and other organic vapors.

#### Hazardous Polymerization:

Will not occur.

### 11. TOXICOLOGY INFORMATION

#### Acute Toxicity:

##### A. General Product Information:

No information is available for the product.

##### B. Component Analysis - LD50/LC50:

No information is available for the product.

#### Carcinogenicity:

##### A. General Product Information:

No information is available for the product.

##### B. Component Carcinogenicity:

None of this product's components is on IARC or NTP lists.

#### Other Toxicological Information:

No information is available for the product.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity:

##### A. General Product Information

No data is available for this product.

##### B. Component Analysis - Ecotoxicity -Aquatic Toxicity

No data is available for this product.

#### Environmental Fate:

No data is available for this product.



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#### 13. DISPOSAL CONSIDERATIONS

##### U.S. EPA Waste Numbers & Descriptions - General Product Information:

Wastes must be tested using methods described in 40 CFR Part 261. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous wastes.

##### Component Waste Numbers:

No data is available for this product.

##### Disposal Instructions:

Dispose of waste material according to local, state, federal, and provincial environmental regulations.

#### 14. TRANSPORTATION INFORMATION

##### U. S. DOT Information:

Not regulated.

#### 15. REGULARITY INFORMATION

##### U. S. Federal Regulations

###### A. General Product Information

No additional information is available.

###### B. Component Analysis

This material contains no chemicals requiring identification under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactive: No

##### U. S. State Regulations

###### A. General Product Information

No information is available.

###### B. Component Analysis - State

No information is available.

##### Other Regulations

###### A. General Product Information

All components are on the U.S. EPA TSCA Inventory List.

###### B. Component Analysis - Inventory

No information is available.

###### C. Component Analysis - WHMIS IDL

No information is available.



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#### 16. OTHER INFORMATION

Date Prepared: 24 September 2021  
Supersedes Date: NEW

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0 Other:**

Hazard Scale: 0= Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic Hazard

**HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0 Personal Protection:**

Hazard Scale: 0= Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Key / Legend:

ACGIH = American Conference of Governmental Industrial Hygienists	NFPA = National Fire Protection Association
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act	NIOSH = National Institute for Occupational Safety and Health
EPA = Environmental Protection Agency	NTP = National Toxicology Program
HMIS = Hazardous Material Identification System	OSHA = Occupational Safety and Health Administration
IARC = International Agency for Research on Cancer	SARA = Superfund Amendments and Reauthorization Act
MSHA = Mine Safety and Health Administration	TSCA = Toxic Substance Control Act
TWA= Time Weighted Average	STEL = Short Term Exposure Limit
TCC = Tag Closed Cup	PMCC = Pensky Martin Closed Cup
TOC = Tag Open Cup	DOT = Department of Transportation
ND= Not Determined	NA or N/A = Not Available
LEL = Lower Explosion Limit	UEL = Upper Explosion Limit

#### FOR INDUSTRIAL USE ONLY

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## Plasma Guard STV® Dilution Ratio

stvcnc.com

Below is a balanced mixture of Anti-Rust Solution & Water along with recommended safety & maintenance instructions. Important: Please read the Safety Data Sheet at [stvcnc.com/plasmaguardstv](https://stvcnc.com/plasmaguardstv)

### 2' x 4' Plasma Table

1.1 Gallons (169 oz.) of Plasma Guard STV® & fill the rest with water up to the slats



### 4' x 4' Plasma Table

2.2 Gallons (338 oz.) of Plasma Guard STV® & fill the rest with water up to the slats



### 5' x 5' Plasma Table

3.5 Gallons (538 oz.) of Plasma Guard STV® & fill the rest with water up to the slats



### 4' x 8' Plasma Table

4.3 Gallons (661 oz.) of Plasma Guard STV® & fill the rest with water up to the slats



### 5' x 10' Plasma Table

7 Gallons (1076 oz.) of Plasma Guard STV® & fill the rest with water up to the slats



### 6' x 12' Plasma Table

8.5 Gallons (1306 oz.) of Plasma Guard STV® & fill the rest with water up to the slats



# PLASMA GUARD STV®

PLASMA GUARD STV® is the ideal product to protect your STV CNC Plasma Table's water pans, slats and the materials you cut. When concentration levels are maintained correctly, the anti-rust solution prevents rust and debris while offering a cooling process that lessens warping of materials and the presence of fumes in your workshop. To order or view recommended dilution ratio visit us at <https://stvcnc.com/product/plasmaguardstv>

► Prevents Rust & Corrosion	► Material Anti-Rust Treatment	► Non-Volatile Organic Compound	► Long-Term use with comprehensive coverage	► Prevents Flash Rusting
► Arc Glare Reduction	► Prevents Material Warpage & Distortion	► Reduction of Fumes & Inhalation	► Doesn't interfere with finishing operations	► Noise Suppressant
► Quickens Time for Material Handling	► Prevents Odors, Insects & Bacteria Growth	► Anti-Microbial Solution	► UV Light ARC-SAFE Additive Solution	► Non-Staining

**CONCENTRATE FOR INDUSTRIAL USE ONLY. READ SAFETY DATA SHEET BEFORE USE.**

**WARNING**  
CAUSES EYE IRRITATION.  
OBSERVE GOOD HYGIENE PRACTICES DAILY.

**AVOID CONTACT WITH SKIN, EYES AND CLOTHING USE SAFETY GLASSES/GOGGLES, CHEMICAL-RESISTANT GLOVES, BOOTS AND APRON, WHEN NECESSARY USE AND STORE WITH ADEQUATE VENTILATION. KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT CUT, WELD OR REUSE CONTAINER. AVOID BREATHING VAPORS. KEEP WORKPLACE AIRBORNE CONCENTRATIONS BELOW RECOMMENDED LIMITS. CIRCUMSTANCES COULD REQUIRE USE OF RESPIRATORY PROTECTION.**

**SPILLS OR LEAKS:** DIKE AND PREVENT MATERIAL FROM ENTERING DRAINS, SEWERS OR WATERWAYS. ABSORB WITH DRY/NEUT ABSORBENT MATERIAL. TRANSFER INTO RECOVERY DRUM FOR DISPOSAL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**EYES:** IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE/ATTENTION.

**SKIN:** IF ON SKIN, WASH WITH PLENTY OF SOAP AND WATER.

**INGESTION:** IF SWALLOWED, RINSE MOUTH. DO NOT INDUCE VOMITING.

**INHALATION:** IF EXPOSED OR CONCERNED, GET MEDICAL ADVICE/ATTENTION.

WEIGHT: 50 lbs. BATCH NO.: 2112782

PICO CHEMICAL CORPORATION  
CELEBRATING 45 YEARS  
Established in 1978  
To provide products and services that meet and exceed our customers' requirements and challenges.  
We are the effectiveness of our quality systems.

PROUD MEMBER OF:  
PICO CHEMICAL CORPORATION  
ESTABLISHED 1978

MANUFACTURED FOR STV CNC BY:  
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[www.picochemical.com](http://www.picochemical.com)

STV CNC RE-ORDERS  
Call 1-888-701-7101  
or visit us online at  
[stvcnc.com](http://stvcnc.com)

### BENEFITS

(with proper concentration levels)

- + Prevents Rust & Corrosion
- + Noise Suppressant & Arc Glare Reduction
- + Quickens Time for Material Handling
- + Material Anti-Rust Treatment
- + Prevents Material Warpage & Distortion
- + Prevents Odors, Insects & Bacteria Growth
- + Non-Volatile Organic Compound
- + Reduction of Fumes & Inhalation
- + Anti-Microbial Solution
- + Prevents Flash Rusting
- + Non-Staining
- + UV Light ARC-SAFE Additive Solution
- + Doesn't interfere with finishing operations
- + Long-term use with comprehensive coverage

**IMPORTANT:** The above benefits are achievable when the proper concentration levels in your plasma table are maintained & checked periodically. It is important to know that in your work environment, SAFETY is priority. Take the necessary precautions for PPE (Personal Protective Equipment) for yourself and those in your working environment.

Find the Safety Data Sheet at: [stvcnc.com/plasmaguardstv](https://stvcnc.com/plasmaguardstv)

STV®CNC is America's Best Choice for CNC Tables. Factory-Direct Prices, Trust & Customer Support.

6160 N. Hollywood Blvd. #110,

Las Vegas, Nevada, USA 89115 [MAP](#) 

Call us 1-855-974-4413 ( M - F 8am-4:30pm PST )

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