

# SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

## Section 1: Chemical Product and Company Identification

PRODUCT NAME: **ST-1**  
FORMULA: Preparation/Mixture  
PRODUCT USE: Non-chromated surface pretreatment

MANUFACTURER'S NAME: Pantheon Enterprises, Inc.  
ADDRESS: 225 West Deer Valley Road  
Phoenix, AZ 85027  
Safety Data Sheet Competent Person: safety@pantheonchemical.com

SUPPLIER'S NAME: Pantheon Enterprises, Inc.  
ADDRESS: 225 West Deer Valley Road  
Phoenix, AZ 85027  
TELEPHONE NUMBER: 623-780-2296  
TOLL FREE: 1-888-608-7888  
FAX: 623-516-0414

EMERGENCY TELEPHONE NUMBER: Chemtrec 24 hrs: 1-800-424-9300  
Information: 623-780-2296  
Fax: 623-516-0414

DATE PREPARED: May 7, 2015  
DATE REVIEWED: June 18, 2015

## Section 2: Hazards Identification

### GHS Hazard Class:

Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319

### GHS Label elements, including precautionary statements:

Pictogram:



Signal word:

Warning

Hazard Statement(s):

H315  
H319

Causes skin irritation.  
Causes serious eye irritation.

Precautionary Statement(s):

P102  
P103  
P264  
P280  
P302+P352  
P305+P351+P338  
  
P332+P313  
P337+P313  
P362

Keep out of reach of children  
Read label before use  
Wash skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

Hazard(s) Not Otherwise Classified (HNOC): Not classified

Fire and explosion: Not considered flammable or combustible.  
 Potential health effects: <2% of mixture consists of ingredients of unknown oral acute toxicity.  
 Other: None  
 Chronic effects of overexposure: None  
 Appearance: Clear amber liquid

**NFPA RATINGS:**

COMPONENT	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
ST-1	1	0	0	NONE

**Section 3: Composition / Information on Ingredients**

PRODUCT COMPOSITION	APPROX %	CAS NO.	CANADA DSL
Water	80-95	7732-18-5	Y
DGBE (Diethylene glycol monobutyl ether)	<7	112-34-5	Y

Some items on this MSDS may be designated as trade secrets (TS). Bona fide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

**Section 4: First Aid Measures**

**Description of First Aid Measures**

**INHALATION:** No fumes are emitted when using this product. No adverse effects are anticipated from inhalation.  
**SKIN CONTACT:** Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.  
**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.  
**INGESTION:** If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms/Injuries After Inhalation:** No adverse effects are anticipated from inhalation.  
**Symptoms/Injuries After Skin Contact:** May cause mild skin irritation. Wash thoroughly with soap and rinse with water.  
**Symptoms/Injuries After Eye Contact:** Irritation may result from contact with the eye. Rinse immediately with water and seek medical advice.  
**Symptoms/Injuries After Ingestion:** May be harmful if swallowed. Drink large amount of water. Do NOT induce vomiting. Seek medical advice.

**Indication of any immediate medical attention and special treatment needed**

In case of accident or if you feel unwell, seek medical advice immediately.

**Section 5: Fire-fighting Measures**

**Suitable extinguishing media** Material does not burn. Use extinguishing agent suitable for the type of surrounding fire.  
**Special hazards arising from the substance or mixture** No data available.  
**Protective actions fire-fighters** Wear standard protective equipment and self-contained breathing apparatus for firefighting if necessary.  
**Further information** None.

## Section 6: Accidental Release Measures

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

Wear proper personal protective equipment. Avoid breathing vapors, mist or gas.

### Environmental precautions

None

Prevent further leakage or spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

### Methods and materials for containment and cleaning up

In case of small spills, absorb with inert materials such as earth or dry sand. Place in a chemical waste container.

In case of large spills, dike the spill, if possible. Call emergency services. Absorb the chemical.

Warn other workers of spill.

### Reference to other Sections

For personal protection reference section 8. For disposal reference section 13.

## Section 7: Handling and Storage

### Precautions for safe handling

Do not store in temperatures below 32 F.

Wear proper protective equipment and avoid contact with skin, eyes, or clothing.

Wash hands after handling this product. Keep out of reach of children.

### Conditions for safe storage, including any incompatibilities

Follow all applicable local regulations for handling and storage.

Utilize chemical segregation from acids.

### Specific uses

This product is a non-chromated surface pretreatment for preparing metal or composites for painting.

## Section 8: Exposure Controls/Personal Protection

### Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL	U.S. WEEL TWA	EU IOELV TWA (mg/m <sup>3</sup> )	United Kingdom WEL	Canada OEL	Mexico OEL
DGBE	-----	-----	-----	-----	-----	10 ppm; 10 mg/m <sup>3</sup> ; STEL15 ppm, 15 mins.	-----	-----

### Exposure controls

#### VENTILATION:

Always provide good general, mechanical room ventilation where this chemical/material is used.

#### RESPIRATORY PROTECTION:

No special precautions.

#### PROTECTIVE GLOVES:

Wear chemical impervious gloves at all times while working with this

#### product. EYE PROTECTION:

Recommend eye protection using safety glasses or goggles.

#### SKIN PROTECTION:

Suitable protective clothing to prevent skin contact

#### WORK/HYGIENE PRACTICES:

Avoid contact with skin and eyes. Wash hands and face after handling.

#### PROTECTIVE CLOTHING:

Wear suitable protective clothing to prevent skin contact.

#### OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

## Section 9: Physical and Chemical Properties

APPEARANCE – COLOR:	Clear amber
PHYSICAL STATE:	Liquid
ODOR:	None
ODOR THRESHOLD:	Data Not Applicable
pH:	10.0-11.5
MELTING POINT/FREEZING POINT:	28°F (-2°C) Freezing point
INITIAL BOILING POINT AND BOILING RANGE:	219°F (104°C)
FLASH POINT:	Not Applicable for product
EVAPORATION RATE:	<1 (Butyl Acetate =1)
FLAMMABILITY (Solid, gas):	Not Applicable for product
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	Not Applicable for product
VAPOR PRESSURE:	17.3 mmHg @ 20 °C
DGBE:	0.02 mmHg @ 20 °C
VAPOR DENSITY (AIR = 1):	Not Applicable for product
RELATIVE DENSITY (@25 °C):	0.96 to 1.04 (Water)
SOLUBILITY (IES):	100% in water
OXIDIZING PROPERTIES:	Data Not Applicable
PARTITION COEFFICIENT: n-octanol/water:	Data Not Applicable
AUTO IGNITION TEMPERATURE:	Data Not Applicable
DECOMPOSITION TEMPERATURE:	Data Not Applicable
VISCOSITY:	Data Not Applicable
CORROSIVE:	No

## Section 10: Stability and Reactivity

STABILITY:	Stable.
CONDITIONS TO AVOID:	None
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong acid solutions. This product will have an exothermic reaction with strong acid solutions.
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur

## Section 11: Toxicological Information

There is no toxicological information available for the product or mixture.

GHS Required Criteria	Toxicity Criteria	Data	Comments	Chemical Constituent
Acute Toxicity	ATE (oral)	>5,000 mg/kg		Product
	LD50 Oral Rat	5,660 mg/kg	Pure substance	DGBE
	LD50 Oral Rat	4,500 mg/kg	Pure substance	DGBE
	LD50 Dermal Rat	2,700 mg/kg	Pure substance	DGBE
Skin Corrosion/Irritation		Cat.2		Product
		Cat.2A		Product
Serious Eye Damage / Eye Irritation		Cat.2A	Pure substance	DGBE
		No information is available		
Respiratory or Skin Sensitization		No information is available		
		None listed	OSHA	
		None listed	IARC	
		None listed	NTP	
Germ Cell Mutagenicity		None listed		
		None listed		
Carcinogenicity		None listed		
		No information is available		
		No information is available		
		No information is available		
		No information is available		
Reproductive Toxicity		No information is available		
	STOST -- Single Exposure	No information is available		
	STOST – Repeated Exposure	No information is available		
	Aspiration Hazard	No information is available		
	Ames test	No information is available		

ATE = Acute Toxicity Estimation, STOST = Specific Target Organ Systemic Toxicity

OTHER INFORMATION: Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

## Section 12: Ecological Information

	Environmental Impacts	Chemical Constituents
Toxicity:	Acute LC <sub>50</sub> 1300000 ug/L Fresh water Fish - Lepomis macrochirus – 33 to 75 minutes, 96 hours	DGBE
Bioaccumulative potential:	Log Pow = 0.3	DGBE
Persistence and degradability:	Product is biodegradable	Product
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	No information is available.	
Other adverse effects:	No information is available.	

Note: Not all of the ingredients have been tested for ecotoxicity.

## Section 13: Disposal Considerations

### Waste from residues/unused products

Completely rinse container prior to disposal. Dispose of in accordance with Federal, state, and local regulations. Large quantities of waste may require adjustment to a neutral pH. None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

### Contaminated packaging

Contaminated packaging material should be disposed of as stated above for residues and unused product.

### Rinse

Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

## Section 14: Transport Information

**DOT TRANSPORT:** Not Regulated

**ADR = International Carriage of Dangerous Goods by Road** Not Regulated

**RAIL TRANSPORT:** Not Regulated

**SEA TRANSPORT:** IMDG Not Regulated

**AIR TRANSPORT:** IATA/ICAO Not Regulated

## Section 15: Regulatory Information

### TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and/or orders of TSCA.

### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

### CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

### STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	Not listed
Massachusetts's hazardous substance(s):	Not listed
Pennsylvania hazardous substance code(s):	Not listed
New Jersey	Not listed

CLEAN AIR ACT AMENDMENTS (1990):

SECTION 111, VOLATILE ORGANIC COMPOUNDS

This substance is subject to be compliant with emission standard of 40CFR Part 60: NNN, RRR

SECTION 112, HAZARDOUS AIR POLLUTANTS:

This substance is listed Hazardous Air Pollutant

Glycol Ethers

CLEAN WATER ACT: None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

CANADA:

This SDS will be non-compliant 3 years after the issue date. This SDS contains all of the information required by the Controlled Products Regulations (CPR).

WHMIS-INFORMATION:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, current to February 20, 2012. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined to not be WHMIS controlled.

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures. None of the chemicals used in this product are on the EU's REACH SVHC (Substances of Very High Concern) chemicals list (as of June 16, 2014).

## Section 16: Other Information

Revision Number:	2.0
Revision explanation	Comply with GHS
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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