



SAFETY DATA SHEET

SPX ELC 100%, 50/50, 60/40

Revision Date 12/13/2021

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name **SPX ELC**

(100%, 50/50, & 60/40)

Product Use Antifreeze

Company Name Pilot Thomas Logistics
1051 Mustang Drive, Suite 600
Grapevine, TX 76051

Office 844-785-8326

Web www.pilotthomas.com



EMERGENCY TELEPHONE NUMBER PERS 1-800-633-8253 CUSTOMER #1898

SECTION – 2 HAZARDS INFORMATION

Pictogram



Signal Word Warning

Hazards **PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS**

Harmful if swallowed

Causes mild skin irritation

Causes eye irritation

May cause respiratory irritation

< 4% of the mixture consists of ingredient(s) of unknown acute toxicity

May cause damage to organs through prolonged or repeated exposure
kidneys

HAZARD CATEGORY CLASSIFICATION **CODE**

Category 4 Acute Toxicity (Oral) H302

Category 3 Skin H316

Category 2B Eyes H320

Category 3 STOT Single Exposure H335

No Category Unknown Toxicity None

Category 2 STOT Repeat Exposure H373

Precautions **HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL**

CODE

Avoid breathing dust / fume / gas / mist / vapours / spray

P261

Do not get in eyes, on skin, or on clothing

P262

Wash thoroughly after handling

P264

Do not eat, drink or smoke when using this product

P270

Avoid release to the environment

P273

Use personal protective equipment as required

P281

In case of inadequate ventilation wear respiratory protection

P285

Store in a well-ventilated place. Keep container tightly closed

P403+P233

Dispose of material in accordance with all State and Federal Guidelines and Regulations

P501

SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

<u>CHEMICAL NAME</u>	<u>COMMON NAME AND SYNONYMS</u>	<u>CAS #</u>	<u>IMPURITIES</u>	<u>PERCENT</u>
Ethylene Glycol	1,2-Ethanediol	107-21-1		>50%
Supplier Proprietary	Unknown	Unknown	Unknown	<4%

SECTION – 4 FIRST AID MEASURES

Eye Contact	Flush eyes with cold water while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists seek medical aid
Skin Contact	Wash with soap and water, If irritation is present or occurs obtain medical attention
Inhaled	Not applicable under normal use. If irritation is experienced, move person to fresh air.
Ingested	DO NOT INDUCE VOMITING, unless directed to do so by medical personnel, If person is fully conscious, rinse mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into the lungs
Important Effects	Exposure may affect, kidneys, by skin absorption
Other Advice	Pre-existing, kidneys, disorders may be aggravated by exposure to this product

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media	Use DRY chemicals, CO2, alcohol foam. Water spray to cool or protect exposed materials
Explosion Hazard	Containers may rupture and burn when heated excessively during a fire
Hazardous Decomposition	Burning or thermal decomposition can produce, carbon dioxide, carbon monoxide, unidentified organic compounds
Protective Equipment	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personnel of spill, Stop spill or release only if it can be done safely, Ventilate area, Keep unprotected personnel from entering the spill area
Personal Precautions	Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill, Contaminated surfaces will be extremely slippery
Protective Equipment	Safety Glasses, Chemical Gloves, Approved Respirator, Chemical Apron and Rubber Boots
Containment	Use sand or inert non-combustible absorbent pads to prevent spill from spreading, Prevent entry into waterways, sewers, basements or confined areas
Clean Up Procedures	Recover as much as possible and collect spillage using non-combustible absorbent pads or inert material (e.g. sand, earth, diatomaceous earth or vermiculite), and place into approved container for proper disposal
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations, Contact a licensed waste disposal contractor for proper disposal

SECTION – 7 HANDLING AND STORAGE

Handling	Do not get in eyes, Avoid prolonged skin contact, Use appropriate safety equipment, Wash thoroughly after handling, Avoid release to the environment
Storage	KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Keep only in original container, Store away from incompatible materials
Incompatible Materials	Incompatible with, aldehydes, strong acids, strong bases, strong oxidizing agents

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE LIMITS**

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
Ethylene Glycol	100 mg/m ³		50 ppm (125 mg/m ³)		EI,RT

PERSONAL PROTECTION

HMIS HAZARD RATINGS	
Health	2
Flammability	1
Reactivity	0
Personal Protection	H

Eyes	Wear safety glasses or goggles or face shield when handling / using this material
Hands	Wear chemical resistant impervious gloves when handling / using this material. Consult with supplier for recommendations regarding glove material / permeability / break through time
Lungs	Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced
Body	"If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when handling / using this material
Feet	"If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling / using this material
Response	Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of material
Ventilation	Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA / NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	111°C (232°F)	Specific Gravity / Density	1.115
Flammable Limits	Lower: 3.2%, Upper: 15.3%	pH (± 0.3)	7 - 11.5
Auto-Ignition Temp.	398°C (748°F)	Viscosity	21 cP @ 20°C
Physical State	Liquid	Freeze Point	-13°C (8.6°F)
Appearance	Clear Red	Boiling Point	196 - 198 °C (385 - 388 °F)
Odor	Odorless	Vapor Density (air=1)	2.1
Odor Threshold	ND	Vapor Pressure (mmHg)	0.006 mm Hg @ 20°C
Solubility	100%	Evaporation Rate (nBuAc=1)	ND
Volatiles	0%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	ND
LVP-VOC	0%	Decomposition Temperature	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients
Chemical Stability	Stable under normal ambient and anticipated conditions of use
Hazardous Polymerization	Will not occur
Conditions To Avoid	Heat sources, sparks, open flame or incompatible materials
Incompatible Materials	Incompatible with, aldehydes, strong acids, strong bases, strong oxidizing agents
Hazardous Decomposition	Burning or thermal decomposition can produce, carbon dioxide, carbon monoxide, unidentified organic compounds

SECTION – 11 TOXICOLOGICAL INFORMATION**ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Can cause eye irritation
Skin Can cause mild skin irritation
Inhalation Mist may cause mild irritation
Ingestion Harmful if swallowed, Symptoms may include, nausea, vomiting, abdominal pain

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes eye irritation, redness, tearing
Skin Causes mild skin irritation, Skin absorption may affect, kidneys
Inhalation Mist, vapor or fumes may cause, respiratory irritation
Ingestion Harmful if swallowed, Ingestion may affect, liver, kidneys, respiratory system, Symptoms may include, convulsions, inebriation, nausea, vomiting, abdominal pain, muscle tenderness, cardiovascular collapse, Without treatment, death may occur in 8 to 24 hours, Victims who survive the initial toxicity period usually develop renal failure along with brain and liver damage

Acute Tox Calculated **Oral:** 1,458 mg/kg **Dermal:** > 5,000 mg/kg **Inhaled:** > 50 mg/L

Acute Tox Category Category 4 (Oral >300, ≤2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >50 mg/L) Vapors

Additional Info Initial ingestion symptoms of a large dose (>100ml) are those of alcohol intoxication progressing to vomiting, headache, stupor, convulsions and unconsciousness. Respiratory system involvement may occur 12 to 24 hours after ingestion, Symptoms may include hyperventilation and rapid shallow breathing. Death may occur from respiratory failure or pulmonary oedema, Overexposure may cause reproductive and teratogenic disorders / effects based on laboratory animal tests

Target Organs Kidneys, Lungs, Respiratory System

Medical Conditions Preexisting, eye, skin, liver, kidney, respiratory, disorders may be aggravated by exposure to this product

Notes to Physician Possible ethylene glycol poisoning. Exposure or consumption of alcohol may increase toxic effects

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u>	<u>NTP</u>	<u>ACGIH</u>	<u>IARC</u>	<u>GHS Category</u>
None Listed	NA	NA	NA	NA

MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u>	<u>Germ Cell Mutagenicity</u>	<u>Toxic to Reproduction</u>
None Listed	NA	NA

COMPONENTS ACUTE TOXICITY

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Form</u>	<u>Subject</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Ethylene Glycol	LD50	Oral	Rat	4,000 mg/kg		(>2000 mg/kg)
	LDLO	Oral	Human	1,400 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	10,626 mg/kg		(>2000 mg/kg)

SECTION – 12 ECOLOGICAL INFORMATION

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Subject</u>	<u>Subject Latin</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Ethylene Glycol	LC50	Rinbow Trout	(Oncorhynchus mykiss)	18,500 mg/L	96 Hours	4 (>100 mg/L)
	EC50	Water Flea	(Daphnia magna)	74,000 mg/L	48 Hours	4 (>100 mg/L)

Presistence And Degradability This product is readily biodegradable according to the OECD definition

Bioaccumulative Potential There is no evidence to suggest bioaccumulation will occur


Mobility In Soil This material is a mobile liquid and is expected to leach into ground water

Other Adverse Effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

SECTION – 13 DISPOSAL CONSIDERATIONS

Disposal Statement	DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER Dispose of any waste in accordance with all State and Federal Guidelines and Regulations
Container Disposal	Triple rinse empty container then offer for recycling. If not available, puncture and dispose in a sanitary landfill
Material Disposal	This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

SECTION – 14 TRANSPORT INFORMATION**DOT CLASSIFICATION**

<u>UN Number</u>		<u>Proper Shipping Name</u> n.o.s. (Chemicals) or "Limits"					
UN 3082		Other regulated substances, liquid, n.o.s.(Ethylene Glycol)					
<u>Hazard Class</u>	<u>Packing Group</u>	<u>Label Codes</u>	<u>Reportable Quantity (lb)</u>	<u>Response</u>	<u>Marine Pollutant</u>	<u>Hazard Label</u>	<u>Secondary</u>
9	III	Miscellaneous	(5,208) = 5,000 Ethylene Glycol	171	No		
Additional Info: Reportable Quantity (lb) is the calculated amount of this product when released that requires reporting							

SECTION – 15 REGULATORY INFORMATION**TSCA**

CHEMICAL NAME	Sec 8(b) Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Ethylene Glycol	Yes			

REPORTABLE QUANTITIES

CHEMICAL NAME	Extremely Hazardous EPCRA TPQ Sec 302	Reportable Quantity EPCRA RQ Sec 304	Emission Reporting CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r
Ethylene Glycol		5,000	Yes			

SARA

CHEMICAL NAME	Section 311 Hazardous Chemical	Acute	Chronic	Section 311 / 312 Hazards Flammable	Pressure	Reactive
Ethylene Glycol	Yes	Yes	Yes			

CALIFORNIA

WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to www.P65Warnings.ca.gov

CHEMICAL NAME	CAS #	Birth Defects	Reproductive Harm	Carcinogen	Developmental
None Listed					

CLEAN AIR WATER ACTS

CHEMICAL NAME	CAS #	Clean Air Acts HAP	Ozone Class 1	Ozone Class 2	Clean Water Acts HS	PP	TP
Ethylene Glycol	107-21-1	Yes					

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Ethylene Glycol	Yes	Yes	Yes	Yes	Yes	Yes

RIGHT TO KNOW

CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Ethylene Glycol			Yes	Yes		Yes		Yes		Yes	Yes	Yes	

SECTION – 16 OTHER INFORMATION**SDS LEGEND DESCRIPTION**

~	Approximately	*	Additional Information
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours)
KD	Kidney Damage (nephropathy)	UEL	Upper Explosive Limit

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