



SAFETY DATA SHEET

SPX UNIVERSAL COOLANT

Revision Date 11/24/2015

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME **SPX UNIVERSAL COOLANT** **BLN**
 Universal Coolant 100%, 50/50, 60/40

PRODUCT USE Antifreeze/Coolant

COMPANY NAME Pilot Thomas Logistics **Office** 844-785-8326
 201 North Rupert Street
 Fort Worth TX 76107 **Web** www.pilotthomas.com

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

SECTION – 2 HAZARDS INFORMATION

Health Hazards EYES-Category 2B; STOT SINGLE EXPOSURE-Category 3; STOT REPEAT EXPOSURE-Category 2; ACUTE TOXICITY-Category 4 (Oral)



Acute Toxicity
Respiratory Tract Irritant



Target Organ Toxicity

WARNING Causes eye irritation, Harmful if swallowed, May cause damage to organs, (Cardiovascular System), (Central Nervous System), (Eyes), (Kidneys), (Liver), by ingestion, through prolonged or repeated exposure, May cause respiratory irritation Causes mild skin irritation, Do not get in eyes, on skin, or clothing, and avoid inhalation of mist, vapor or fumes, Do not smoke, eat or drink while using, Use proper Safety Equipment, and adequate ventilation, Wash thoroughly with soap and water after handling, Avoid release into the environment, (< 6% of this mixture consists of ingredient(s) of unknown toxicity)

SECTION – 3 COMPOSITION INFORMATION

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

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
Ethylene Glycol	1,2-Ethanediol	107-21-1		47 - 94%
Water		7732-18-5		0 - 50%
Unknown Component	Supplier Proprietary Trade Secret	Unknown		3 - 6%

SECTION – 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for at several minutes 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 contaminated skin with plenty of soap and water, Remove contaminated shoes or clothing and wash before reuse, If irritation occurs or persists seek medical aid

INHALATION Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

INGESTION DO NOT INDUCE VOMITING. If person is fully conscious, rinse mouth out and give one to two glasses of water to dilute and obtain immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration into the lungs

Aspiration Hazard Not applicable

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Can cause eye irritation, discomfort, redness, tearing, by direct product contact, mist or vapors

Skin May cause mild skin irritation, drying or cracking

Inhalation Mist or vapor may cause mild irritation, to respiratory tract

Ingestion Harmful if swallowed, Symptoms may include, dizziness, drowsiness, nausea, diarrhea, vomiting, abdominal pain

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes eye irritation, redness, tearing, burning, or pain, by direct product contact, mist or vapors

Skin Causes mild skin irritation, defatting of the skin which may lead to dermatitis, May be harmful if absorbed through skin

Inhalation Mist or vapor may cause irritation, to throat, mucus membranes or respiratory tract

Ingestion Harmful if swallowed, May affect target organs, liver, kidneys, central nervous system, cardiovascular system, Symptoms may include, breathing difficulties, dizziness, drowsiness, nausea, diarrhea, vomiting, abdominal pain, cardiac irregularities

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media	SUITABLE: Use DRY chemicals, CO ₂ , alcohol foam. Water spray to cool or protect exposed materials UNSUITABLE: Avoid using a water stream. Product will float upon water and could spread any fire
Hazardous Decomposition	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, and other toxic fumes
Reactive With	Reactive with, strong oxidizing agents, strong bases, strong acids, aldehydes
Explosion Hazards	Containers may erupt when heated excessively during a fire
Static Discharge	Not applicable
Mechanical Impact	Not applicable
Protective Equipment	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

FLAMMABLE LIQUIDS HAZARD CLASSIFICATION

Criteria Flash point > 93.3°C (200°F)

NFPA Class III B

GHS Not applicable

WHMIS Not applicable

NFPA HAZARD RATINGS

Health 2

Flammability 1

Reactivity 0

Special Hazards

**SECTION – 6 ACCIDENTAL RELEASE MEASURES**

Emergency Procedures	Warn personnel to move away and stay upwind from spill, Stop spill or release only if it can be done safely
Personal Precautions	Ventilate area, Avoid slipping on spilled product, Keep unprotected personnel from entering the hazard area
Protective Equipment	Safety Glasses, Chemical Gloves, Approved Respirator, Chemical Apron and Rubber Boots
Containment	Cover or dike any floor drains with an inert material to prevent product from entering the environment, Use sand, absorbent socks or pads to prevent spill from spreading
Clean Up Procedures	Use sand or inert non-combustible absorbent pads or material and place in a chemical waste disposal container
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling	Keep away from incompatible materials, Use appropriate safety equipment, and adequate ventilation, Avoid eye or skin contact and inhalation of mist, vapor or fumes, Harmful if swallowed, Do not smoke, eat or drink while using, Wash thoroughly after handling, Avoid release to the environment
Storage	Keep container closed when not in use, Store away from incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, strong bases, strong acids, aldehydes

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 PROTECTIVE EQUIPMENTChemical Safety Glasses,
Goggles or Face ShieldImpervious
Chemical GlovesImpervious
Protective ClothingEye Wash and
Safety Shower
(Recommended)**Ventilation**

General Ventilation

If exposure limits listed above are exceeded, or irritation is experienced, use a MSHA / NIOSH approved respirator

HMS HAZARD RATINGS

Health	2
Flammability	1
Reactivity	0
Personal Protection	C

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	111°C (232°F) - TAG closed cup	Specific Gravity / Density	1.065 - 1.115
Flammable Limits	Lower: 3.2%, Upper: 15.3%	pH (± 0.3)	7.0 - 11.5
Auto-Ignition Temp.	398°C (748°F)	Viscosity	21 cP @ 20°C (68°F)
Physical State	Liquid	Freeze Point	-13°C (9°F)
Appearance	Clear Green	Boiling Point	ND
Odor	Odorless	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mm Hg)	ND
Solubility	100%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 50%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	36.18 - 58.35
LVP-VOC	0%	Decomposition Temperature	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	None with normal use or handling
Chemical Stability	Hygroscopic (Readily absorbing moisture from the atmosphere)
Hazardous Polymerization	Will not occur
Conditions To Avoid	Incompatible materials, Heat sources
Incompatible Materials	Incompatible with, strong oxidizing agents, strong bases, strong acids, aldehydes
Thermal Decomposition	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, and other toxic fumes

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

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

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes	Can cause eye irritation, discomfort, redness, tearing, by direct product contact, mist or vapors
Skin	May cause mild skin irritation, drying or cracking
Inhalation	Mist or vapor may cause mild irritation, to respiratory tract
Ingestion	Harmful if swallowed, Symptoms may include, dizziness, drowsiness, nausea, diarrhea, vomiting, abdominal pain

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes	Causes eye irritation, redness, tearing, burning, or pain, by direct product contact, mist or vapors
Skin	Causes mild skin irritation, defatting of the skin which may lead to dermatitis, May be harmful if absorbed through skin
Inhalation	Mist or vapor may cause irritation, to throat, mucus membranes or respiratory tract
Ingestion	Harmful if swallowed, May affect target organs, liver, kidneys, central nervous system, cardiovascular system, Symptoms may include, breathing difficulties, dizziness, drowsiness, nausea, diarrhea, vomiting, abdominal pain, cardiac irregularities

Acute Tox Calculated **Oral:** 1,489 mg/kg **Dermal:** > 5,000 mg/kg **Inhaled:** > 12.5 mg/L

Acute Tox Category Category 4 (Oral >300, ≤2000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/L) Dust or Mist

Additional Info

Target Organs Kidneys, Liver, Respiratory Tract, Eyes (Lens or cornea), Skin, Cardiovascular System, Central Nervous System

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

Notes to Physician In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption

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	4,700 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	24 Hours	4 (>100 mg/L)

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

Bioaccumulative Potential Not a bioaccumulator

Mobility In Soil This material is a mobile liquid

Other Adverse Effects No data available

SECTION – 13 DISPOSAL CONSIDERATIONS

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

ENVIRONMENTAL FATE

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its ignitability and due to the 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.

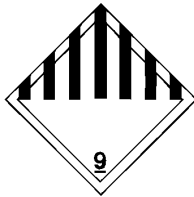
The transportation, storage, treatment and disposal of RCRA waster material must be conducted in compliance with 40 CFR 262, 263, 264 and 270. Disposal can only occur in properly permitted facilities.

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> <u>n.o.s. (Chemicals) or "Limits"</u>			
Not Regulated		Non Regulated Material "< 5,250 lbs"			
<u>Hazard Class</u>	<u>Packing Group</u>	<u>Label Codes</u>	<u>Reportable Quantity (lbs)</u>	<u>Response Code</u>	<u>Marine Pollutant</u>
None	None	None	None	128	No
<u>UN Number</u>		<u>Proper Shipping Name</u> <u>n.o.s. (Chemicals) or "Limits"</u>			
UN 3082		Other regulated substances, liquid, n.o.s. (Ethylene Glycol) "> 5,250 lbs"			
<u>Hazard Class</u>	<u>Packing Group</u>	<u>Label Codes</u>	<u>Reportable Quantity (lbs)</u>	<u>Response Code</u>	<u>Marine Pollutant</u>
9	III	Miscellaneous	Ethylene Glycol (5000)	171	No
<u>Placard Label</u>	<u>Hazard Label</u>	<u>Secondary</u>			



IATA CLASSIFICATION

<u>UN Number</u>		<u>UN Proper Shipping Name</u> <u>n.o.s. (Chemicals) or "Limits"</u>					
UN 3082		Environmentally hazardous substance, liquid, n.o.s. (Ethylene Glycol)					
<u>Class</u>	<u>Packing Group</u>	<u>Enviro Hazard</u>	<u>ERG</u>	<u>Special Provisions</u>	<u>Labels Required</u>	<u>Subsidiary Risk</u>	<u>Hazard Label</u>
9	III	Yes	9L	A97, A158	Miscellaneous	-	

Special precautions / marking: Read safety instructions, SDS and emergency procedures before handling

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			

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

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

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

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

CHEMICAL NAME	INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:					
	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Ethylene Glycol	Yes	Yes	Yes	Yes	Yes	Yes

CHEMICAL NAME	DSL	Class	Description	
			Ethylene Glycol	Yes
		D-2A	Materials Causing Other Toxic Effects; Very Toxic Material	

CHEMICAL NAME	CLEAN AIR WATER ACTS					
	CAS #	HAP	Ozone Class 1	Ozone Class 2	HS	PP
Ethylene Glycol	107-21-1	Yes				

SECTION – 16 OTHER INFORMATION

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

and nCites, L.L.C. have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.