



# SAFETY DATA SHEET

Pbs Prep

Revision Date 10/21/2015

## SECTION - 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME** Pbs Prep **ITEM** PREP  
**PRODUCT USE** Pbs Boot Sealant Remover & Cleaner  
**COMPANY NAME** Jet Stream Aviation Products **Office** (972) 542-2400  
 1971 University Business Dr. Suite 102 **Fax** (972) 542-0238  
 McKinney Tx 75071 **Web** [www.jetstreamproducts.com](http://www.jetstreamproducts.com)  
**EMERGENCY TELEPHONE NUMBER** **INFOTRAC (800) 535-5053**

## SECTION - 2 HAZARDS INFORMATION

Health Hazards EYES-Category 1; SKIN-Category 2; STOT SINGLE EXPOSURE-Category 3



Respiratory Tract Irritant



Eye Damage  
Skin Corrosion/Burns

**DANGER** Causes severe skin burns and eye damage, May cause respiratory irritation  
 May be harmful if swallowed, Do not get in eyes, on skin, or clothing, and avoid inhalation of mist, Do not smoke, eat or drink while using, Use personal protective equipment as required, Wash thoroughly with soap and water after handling, Avoid release into the environment

## 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
2-butoxyethanol	Ethylene Glycol Monobutyl Ether	111-76-2		1 - 5%
Monoethanolamine	Ethanolamine, 2-aminoethanol	141-43-5	Water <15%	1 - 15%

## SECTION - 4 FIRST AID MEASURES

**EYE CONTACT** Immediately flush eyes with cold water for at least 15 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 obtain immediate medical attention, preferably from an ophthalmologist

**SKIN CONTACT** Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical attention

**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 considered to be an aspiration hazard

### ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

**Eyes** Causes serious eye irritation, redness, tearing, pain, corneal injury, or possible eye damage

**Skin** Can cause serious skin irritation, redness, burning, drying, cracking, or possible corrosive burns

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

**Ingestion** May be harmful if swallowed, Can cause irritation, of the mouth, throat, and esophagus, and may affect target organs

### CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

**Eyes** Causes serious eye damage, severe pain, corrosive burns, or possible corneal injury

**Skin** Can cause serious skin damage, itching, inflammation, redness, burning, drying, cracking, defatting of the skin which may lead to dermatitis

**Inhalation** Mist may cause serious irritation, to nose, throat, mucus membranes or respiratory tract

**Ingestion** May be harmful if swallowed, Can cause serious irritation, throat, and esophagus, Ingestion may cause vomiting which may be harmful if it enters airways, Ingestion can affect, liver, kidneys

## SECTION - 5 FIRE FIGHTING MEASURES

**Extinguishing Media** Not flammable: Use extinguishing media for surrounding fire

**Hazardous Decomposition** Burning or thermal decomposition can produce, aldehydes, carbon monoxide, carbon dioxide, nitrogen oxides, sodium oxides, silicon oxides, ketones, organic acids, and other toxic fumes

**Reactive With** Reactive with, strong oxidizing agents, strong acids

**Explosion Hazards** Not applicable

**Static Discharge** Not applicable

**Mechanical Impact** Not applicable

**Protective Equipment** Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

**SECTION – 6 ACCIDENTAL RELEASE MEASURES**

<b>Emergency Procedures</b>	Warn personnel of spill
<b>Personal Precautions</b>	Ventilate area, Avoid slipping on spilled product
<b>Protective Equipment</b>	Safety Glasses, Chemical Gloves and Rubber Boots
<b>Containment</b>	Use absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the environment
<b>Clean Up Procedures</b>	Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water Large Spills: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container Vacuum or sweep up material and place in a disposal container
<b>Disposal</b>	Dispose of material in accordance with all State and Federal Guidelines and Regulations

**SECTION – 7 HANDLING AND STORAGE**

<b>Handling</b>	Keep away from incompatible materials, Use appropriate safety equipment, and adequate ventilation, Avoid eye and skin contact, Avoid inhalation of mist, May cause respiratory irritation, May be harmful if swallowed, Do not smoke, eat or drink while using, Wash thoroughly after handling, Avoid release to the environment
<b>Storage</b>	KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store away from incompatible materials
<b>Incompatible Materials</b>	Incompatible with, strong oxidizing agents, strong acids

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

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
2-butoxyethanol	20 ppm		50 ppm (240 mg/m <sup>3</sup> )		SA
Monoethanolamine	3 ppm	6 ppm	3 ppm (8 mg/m <sup>3</sup> )	6 ppm (15 mg/m <sup>3</sup> )	

**PERSONAL PROTECTIVE EQUIPMENT**Chemical Safety Glasses,  
Goggles or Face ShieldImpervious  
Chemical GlovesEye Wash  
(Recommended)**Ventilation**

General Ventilation

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

**HMIS HAZARD RATINGS**

Health	2
Flammability	0
Reactivity	0
Personal Protection	B

**SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Flash Point</b>	> 93.3°C (200°F) - TAG Closed Cup	<b>Specific Gravity / Density</b>	1.00
<b>Flammable Limits</b>	ND	<b>pH (± 0.3)</b>	11.7
<b>Auto-Ignition Temp.</b>	ND	<b>Viscosity</b>	ND
<b>Physical State</b>	Viscous Liquid	<b>Freeze Point</b>	ND
<b>Appearance</b>	Yellow	<b>Boiling Point</b>	ND
<b>Odor</b>	Mild Ammonia	<b>Vapor Density (air=1)</b>	ND
<b>Odor Threshold</b>	ND	<b>Vapor Pressure (mm Hg)</b>	ND
<b>Solubility</b>	100%	<b>Evaporation Rate (nBuAc=1)</b>	ND
<b>Volatiles</b>	< 90%	<b>Partition Coefficient</b>	ND
<b>VOC</b>	< 12%	<b>Molecular Weight (g/mol)</b>	~33.05
<b>LVP-VOC</b>	0%	<b>Decomposition Temperature</b>	ND

**SECTION – 10 STABILITY AND REACTIVITY**

<b>Reactivity (Specific Test Data)</b>	None available
<b>Chemical Stability</b>	Stable when stored below 49°C (120°F)
<b>Hazardous Polymerization</b>	Will not occur
<b>Conditions To Avoid</b>	Incompatible materials
<b>Incompatible Materials</b>	Incompatible with, strong oxidizing agents, strong acids
<b>Thermal Decomposition</b>	Burning or thermal decomposition can produce, aldehydes, carbon monoxide, carbon dioxide, nitrogen oxides, sodium oxides, silicon oxides, ketones, organic acids, 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** Causes serious eye irritation, redness, tearing, pain, corneal injury, or possible eye damage  
**Skin** Can cause serious skin irritation, redness, burning, drying, cracking, or possible corrosive burns  
**Inhalation** Mist may cause irritation, to mucus membranes or respiratory tract  
**Ingestion** May be harmful if swallowed, Can cause irritation, of the mouth, throat, and esophagus, and may affect target organs

**CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE**

**Eyes** Causes serious eye damage, severe pain, corrosive burns, or possible corneal injury  
**Skin** Can cause serious skin damage, itching, inflammation, redness, burning, drying, cracking, defatting of the skin which may lead to dermatitis  
**Inhalation** Mist may cause serious irritation, to nose, throat, mucus membranes or respiratory tract  
**Ingestion** May be harmful if swallowed, Can cause serious irritation, throat, and esophagus, Ingestion may cause vomiting which may be harmful if it enters airways, Ingestion can affect, liver, kidneys

**Acute Tox Calculated**                      **Oral:**            6,141 mg/kg                      **Dermal:**            8,920 mg/kg                      **Inhaled:**            103.4 mg/L

**Acute Tox Category**    No Data or NA (Oral >5000 mg/kg), No Data or NA (Dermal > 5000 mg/kg), No Data or NA (Inhaled >50 mg/L) Vapors

**Additional Info**

**Target Organs**            Blood, Kidneys, Liver, Respiratory Tract, Eyes (Lens or cornea), Skin  
**Medical Conditions**    Preexisting, eye, skin, liver, kidney, blood, respiratory, 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>
2-butoxyethanol	LD50	Oral	Rat	530 mg/kg		4 (>300, ≤2000 mg/kg)
	LC50	Inhaled	Rat	2.17 mg/L	4 Hours (Mist)	4 (>1.0, ≤5 mg/L)
	LD50	Dermal	Guinea Pig	1650 mg/kg		4 (>1000, ≤2000 mg/kg)
Ethanolamine	LD50	Oral	Rat	1,720 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	1,015 mg/kg		4 (>1000, ≤2000 mg/kg)
	LC50	Inhaled	Estimate	11.59 mg/L	4 Hours (Vapor)	4 (>10, ≤20 mg/L)

**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>
2-butoxyethanol	EC50	Water Flea	(Daphnia magna)	1,815 mg/L	24 Hours	4 (>100 mg/L)
	LC50	Bluegill	(Lepomis macrochirus)	220 mg/L	96 Hours	4 (>100 mg/L)
Monoethanolamine	LC50	Fathead Minnow	(Pimephales promelas)	227 mg/L	96 Hours	4 (>100 mg/L)
	LC50	Water Flea	(Daphnia magna)	65 mg/L	48 Hours	3 (>10, ≤100 mg/L)


**Presistence And Degradability**    This product is inherently biodegradable according to the OECD definition  
**Bioaccumulative Potential**        No data available  
**Mobility In Soil**                      This material is a partially mobile liquid  
**Other Adverse Effects**                May be harmful to aquatic life

**SECTION – 13 DISPOSAL CONSIDERATIONS****DO NOT DUMP INTO ANY STORM 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**

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**

UN Number	Proper Shipping Name <u>n.o.s. ( Chemicals ) or "Limits"</u>						
Ltd Qty	"Limited Quantity" ( Monoethanolamine )						
Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	Response	Marine Pollutant	Hazard Label	Secondary
None	III	None	None	128	No		

**SECTION – 15 REGULATORY INFORMATION**

<b>TSCA</b>													
CHEMICAL NAME	Sec 8(b) Inventory			Sec 8(d) Health And Safety			Sec 4(a) Chemical Test Rules			Sec 12(b) Export Notification			
2-butoxyethanol	Yes			Yes									
Ethanolamine	Yes												
<b>REPORTABLE QUANTITIES</b>													
CHEMICAL NAME	Extremely Hazardous			Reportable Quantity			Emission Reporting						
	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313			RCRA Code			RMP TQ Sec 112r			
Glycol Ethers							Yes						
<b>SARA</b>													
CHEMICAL NAME	Section 311				Section 311 / 312 Hazards								
	Hazardous Chemical		Acute	Chronic	Flammable	Pressure	Reactive						
2-butoxyethanol	Yes		Yes	Yes	Yes								
Monoethanolamine	Yes		Yes	Yes									
<b>RIGHT TO KNOW</b>													
CHEMICAL NAME	STATE												
	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
2-butoxyethanol					Yes		Yes			Yes			
Ethanolamine	Yes		Yes		Yes		Yes			Yes	Yes	Yes	
<b>CALIFORNIA</b>													
CHEMICAL NAME	CAS #	WARNING! This product contains chemicals known to the state of California to cause:											
		Birth Defects	Reproductive Harm	Carcinogen	Developmental								
None Listed													
<b>CLEAN AIR WATER ACTS</b>													
CHEMICAL NAME	CAS #	Clean Air Acts				Clean Water Acts							
		HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP						
None Listed													
<b>INTERNATIONAL REGULATIONS</b> – The components of this product are listed on the chemical inventories of the following countries:													
CHEMICAL NAME	Australia	Canada	Europe (EINECS)			Japan	Korea	UK					
2-butoxyethanol	Yes	Yes	Yes			Yes	Yes	Yes					
<b>WHMIS Classification</b>													
CHEMICAL NAME	DSL	Class	Description										
2-butoxyethanol	Yes	D-2B	Materials Causing Other Toxic Effects; Toxic Material										
Monoethanolamine	Yes	E	Corrosive Material										

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

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

Jet Stream Aviation Products

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