



SAFETY DATA SHEET

Pbs Prep

Revision Date 12/5/2018

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
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EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053

SECTION – 2 HAZARDS INFORMATION

Pictogram



Signal Word Danger

| Hazards | <u>PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS</u> | <u>HAZARD CATEGORY CLASSIFICATION</u> | <u>CODE</u> |
|----------------|---|--|--------------------|
| | Causes severe skin burns and eye damage | Category 1C Skin & Eye | H314 |
| | Causes serious eye damage | Category 1 Eyes | H318 |
| | May cause respiratory irritation | Category 3 STOT Single Exposure | H335 |

| Precautions | <u>HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL</u> | <u>CODE</u> |
|--------------------|---|--------------------|
| | Keep out of reach of children | P102 |
| | Read label before use | P103 |
| | 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 |
| | Wear protective gloves / protective clothing / eye protection / face protection | P280 |
| | In case of inadequate ventilation wear respiratory protection | P285 |
| | Store locked up | P405 |
| | 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> |
|-----------------------------|--|---------------------|--------------------------|-----------------------|
| 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, Obtain immediate medical attention, preferably from an ophthalmologist or Emergency Room

Skin Contact Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure to remove any contaminated clothing and wash before reuse, 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, 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 Corrosive to, eyes, skin

Important Symptoms Symptoms may include, corrosive burns, respiratory irritation

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

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

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 |
| Protective Equipment | Safety Glasses, Chemical Gloves and Rubber Boots |
| Containment | Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from spreading or entering the environment |
| Clean Up Procedures | 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, place in a chemical waste container, mop area with clean water |
| Disposal | Dispose of material in accordance with all State and Federal Guidelines and Regulations |

SECTION – 7 HANDLING AND STORAGE

| | |
|-------------------------------|--|
| Handling | Do not get in eyes, on skin, or clothing, Use appropriate safety equipment, and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly after handling, Avoid release to the environment, Empty containers retain product residue (vapors, liquid or solids) observe all precautions when handling |
| 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, strong acids, strong bases, strong oxidizers |

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

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

PERSONAL PROTECTION

| | |
|--------------------|---|
| Eyes | Wear safety glasses with side protection when handling / using this material |
| Hands | Wear impervious gloves when handling / using this material |
| Response | Access to an eye wash station is a recommended safety precaution for handling / using this type of material |
| Ventilation | General Ventilation |

| HMIS HAZARD RATINGS | |
|---------------------|---|
| Health | 2 |
| Flammability | 0 |
| Reactivity | 0 |
| Personal Protection | B |

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------|-----------------------------------|-----------------------------------|---------|
| Flash Point | > 93.3°C (200°F) - TAG Closed Cup | Specific Gravity / Density | 1.00 |
| Flammable Limits | ND | pH (± 0.3) | 11.7 |
| Auto-Ignition Temp. | ND | Viscosity | ND |
| Physical State | Viscous Liquid | Freeze Point | ND |
| Appearance | Yellow | Boiling Point | ND |
| Odor | Mild Ammonia | Vapor Density (air=1) | ND |
| Odor Threshold | ND | Vapor Pressure (mmHg) | ND |
| Solubility | 100% | Evaporation Rate (nBuAc=1) | ND |
| Volatiles | < 90% | Partition Coefficient | ND |
| VOC | < 12% | Molecular Weight (g/mol) | ~ 33.05 |
| LVP-VOC | 0.0% | 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 | Incompatible materials |
| Incompatible Materials | Incompatible with, strong acids, strong bases, strong oxidizers |
| Hazardous Decomposition | Burning or thermal decomposition can produce, aldehydes, carbon dioxide, carbon monoxide, ketones, nitrogen oxides, organic acids, silicon oxides, sodium oxides |

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 Calculate **Oral:** 7,422 mg/kg **Dermal:** 8,381 mg/kg **Inhaled:** 53.8 mg/L

Acute Tox Category Not applicable (Oral >5,000 mg/kg), Not applicable (Dermal >5,000 mg/kg), Not applicable (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 | 1,746 mg/kg | | 4 (>300, ≤2000 mg/kg) |
| | LC50 | Inhaled | Rat | 2.4 mg/L | 4 Hours (Mist) | 4 (>1.0, ≤5 mg/L) |
| | LD50 | Dermal | Rat | 1,060 mg/kg | | 4 (>1000, ≤2000 mg/kg) |
| Ethanolamine | LD50 | Oral | Rat | 1,720 mg/kg | | 4 (>300, ≤2000 mg/kg) |
| | LC50 | Inhaled | Estimate | 11.59 mg/L | 4 Hours (Vapor) | 4 (>10, ≤20 mg/L) |
| | LD50 | Dermal | Rabbit | 1,015 mg/kg | | 4 (>1000, ≤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> |
|----------------------|-------------|----------------|--------------------------|---------------------|----------------------|---------------------|
| 2-butoxyethanol | EC50 | Water Flea | (Daphnia magna) | 1,815 mg/L | 24 Hours | 4 (>100 mg/L) |
| | EC50 | Algae | (Pseudokirchneriella s.) | 1,840 mg/L | 72 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 – 16 OTHER INFORMATION**SDS LEGEND DESCRIPTION**

| | | | |
|----------------|---|--------------|--|
| ~ | Approximately | KD | Kidney Damage (nephropathy) |
| 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) |
| IG / IH | (IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas) | UEL | Upper Explosive Limit |

Jet Stream Aviation Products

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