# DREXEL PAS-800™

## SECTION 1: MATERIAL IDENTIFICATION

**Product Name:** **Drexel PAS-800™**
**Product Usage:** Pesticide adjuvant, penetrant, acidifier

**Manufacturer:** Drexel Chemical Company
**Address:** 1700 Channel Avenue
PO Box 13327
Memphis, Tennessee, 38113-0327, USA
901-774-4370

| | | |
|---|---|---|
| **Emergency Telephone Numbers:** | CHEMTREC | 800-424-9300 |
| | DREXEL CHEMICAL COMPANY | 901-774-4370 |

## SECTION 2: HAZARD IDENTIFICATION

(As defined by the OSHA Hazard Communication Standard, 29)

**Label Elements:**
**Signal Word:**

**DANGER**

**Classifications:**
**Hazard Class:**

| **Toxicity Study:** | **Category:** |
|---|---|
| Acute Toxicity, Oral | Category 4 |
| Acute Toxicity, Inhalation | Category 4 |
| Skin corrosion/ irritation | Category 1 |
| Serious eye damage / irritation | Category 1 |
| Flammable Liquids | Category 4 |

**Hazard Statements:**

| **H Code:** | **Statement:** |
|---|---|
| H302 | Harmful if swallowed |
| H332 | Harmful is inhaled |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |

**Precautionary Statements:**
**Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Do not get in eyes, on skin, or on clothing.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release into the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.
In case of inadequate ventilation, wear respiratory protection.

**Response:**
**If in Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get immediate medical advice/attention.
**If Swallowed:** Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.
**If Inhaled:** Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER or doctor if you feel unwell.

| | |
|---|---|
| **If on Skin or Clothing:** | Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. |
| **If exposed or concerned:** | None available, get medical attention. |
| **Material released or spilled:** | Collect spillage |
| **Storage:** | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a cool, dry, and secure area designated specifically for pesticides and away from heat sources. Always use oldest stock first. |
| **Disposal:** | Dispose of contents/container in accordance with your local or area regulatory authorities. |
| **HNOC (Hazard not otherwise classified):** | None available/ None known. |

## SECTION 3: COMPOSITION INFORMATION

| Chemical Name: | Synonym: | CAS No.: | EC No.: | RTECS: | % By Wt.: |
|---|---|---|---|---|---|
| **Active Ingredient:** | | | | | |
| Phosphatidylcholine, Propanoic acid, Alcohol ethoxylate | N/A | Mixture | N/A | N/A | 80.0% |
| **Inert Ingredients:** | N/A | N/A | N/A | N/A | 20.0% |

## SECTION 4: FIRST-AID MEASURES

**Have the product container, label and / or Safety Data Sheets (SDS) with you when calling a poison control center or doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information.**

| | |
|---|---|
| **Eye Contact:** | Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. |
| **If Swallowed:** | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |
| **Skin/Clothing Contact:** | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. |
| **If Inhaled:** | Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. |
| **Indication of Medical Attention and Special Treatment Needed:** | Treat symptomatically.<br>If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. Probable mucosal damage may contraindicate the use of gastric lavage. |

## SECTION 5: FIRE FIGHTING MEASURES

| | |
|---|---|
| **Fire Fighting Media:** | Water, $CO_2$, Dry chemical. |
| **Fire Fighting Procedures:** | Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous vapors or decomposition products. Cool containers with water if possible. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff. |
| **Special Protective Equipment for Firefighters:** | Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting |

clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

**Specific Fire Hazards**: Can be dangerous when exposed to extreme heat and flame. Do not breathe mist/ vapor/ spray.

Flammability classification (OSHA 29 CFR 1910.1200): N/Av
Flash point: 160°F
Lower flammable limit (% by volume): N/Av
Upper flammable limit (% by volume): N/Av

**Hazardous Combustion Products:** None known.

**National Fire Protection Association:**

| NFPA: | Health | Fire | Reactivity |
|---|---|---|---|
|  | **2** | **1** | **0** |

**Ratings:** **4-Extreme** **3-High** **2-Moderate** **1-Slight** **0-Insignificant**

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to SECTION 7: HANDLING AND STORAGE, for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

**Environmental Precautions:**

Prevent from entering soil, ditches, sewers, waterways and/or groundwater. Refer to SECTION 12: ECOLOGICAL INFORMATION.

**Steps to be taken if Material is Released or Spilled:**

Control the spill at its source.

Small spills: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Prevent entry into waterways, sewers, basements or confined areas.

Large spills: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Contact Drexel Chemical Company for clean-up assistance. Refer to SECTION 13: DISPOSAL CONSIDERATIONS, for additional information. Prevent entry into waterways, sewers, basements or confined areas.

## SECTION 7: HANDLING AND STORAGE

**KEEP OUT OF REACH OF CHILDREN**

**Handling:** **General Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing dust. Avoid breathing vapors. Use with adequate ventilation. Wear chemical protective equipment when handling. Wear long-sleeved shirt, long pants and shoes with socks when handling. Keep away from heat, sparks and flame. Refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

**Storage:** Store in a cool, dry, ventilated and secure area designated specifically for pesticides and away from heat sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational Exposure Limits:**

| Components: | OSHA PEL | ACGIH TLV |
|---|---|---|
| Propanoic acid | N/A | 5 mg/m$^3$ |

**THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.**

**Engineering Controls:**

**Ventilation:** Investigate engineering techniques to reduce exposures. When handling this product proper ventilation is required to maintain exposure below the TLV. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility / station and safety shower. Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

**Personal Protection:**

**Eye/Face Protection**: Eye contact should be avoided through the use of chemical safety glasses, goggles, or a face shield selected in regard to exposure potential. Wear chemical splash goggles to prevent vapors or mists from entering the eyes. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.

**Ingestion:** Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face thoroughly with soap and water before smoking or eating. Avoid getting wash water in eyes.

**Hand Protection**: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Viton, Polyvinyl chloride ("PVC" or "vinyl"). The selection of gloves for a particular application and duration of use in the workplace should also be taken into account all relevant workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/ puncture protection, dexterity, thermal protection), potential body reactions to gloves materials, as well as the instructions / specs provided by the supplier of gloves.

**Skin Protection**: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

**Respiratory Protection**: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. When handling in enclosed areas, when large quantities of dusts are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property | Reported Value |
|---|---|
| Physical State | Liquid |
| Appearance / Color | Yellow to Brown |
| Odor | Strong vinegar odor |
| Odor threshold | Not available |

| | |
|---|---|
| pH | 3.0 – 4.0 |
| Melting point | Not available |
| Freezing point | <32°F |
| Boiling point | >212°F |
| Flash point | 160°F |
| Evaporation rate | Not available |
| Flammability | Not available |
| Upper flammability/explosive limits | Not available |
| Lower flammability/explosive limits | Not available |
| Vapor pressure | Not available |
| Vapor density | Not available |
| Relative density | 8.57 lbs. / gal. |
| Solubility in water | Emulsifies in water |
| Solubility in organic solvents | Not available |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | Not available |
| Explosive properties | Not available |
| Oxidizing properties | Not available |
| Dissociation Constant | Not available |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity:** | Thermally stable at typical use temperatures and in closed containers. |
| **Chemical Stability:** | Stable under recommended storage conditions. |
| **Hazardous Polymerization:** | Will not occur. |
| **Conditions to Avoid**: | None known. |
| **Incompatible Materials:** | Strong oxidizers. |
| **Hazardous Decomposition Products**: | Carbon monoxide. |

## SECTION 11: TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY**

| | | |
|---|---|---|
| **Potential routes of exposure/potential health effects:** | | Skin contact, Eye contact, Ingestion |
| **Acute Oral:** | **$LD_{50}$ (Rat):** | >5 mg/kg |
| **Acute Dermal:** | **$LD_{50}$ (Rat):** | >5 mg/kg |
| **Acute Inhalation:** | **$LC_{50}$ (Rat):** | No data available |
| **Eye Irritation:** | **(Rabbit):** | Severe Eye damage |
| **Skin Irritation:** | **(Rabbit):** | Severe Skin burns |
| **Skin Sensitization:** | **(Guinea Pig):** | No data available |

**Chronic Toxicity:** No data available

**Carcinogenicity:** No data available

**Mutagenicity:** Non-mutagenic for bacterial and /or yeast

**Teratogenicity:** No data available

**Reproductive Toxicity:** No data available

**Developmental Toxicity:** No data available

| | |
|---|---|
| **Specific target organ toxicity- single exposure:** | No data available / Not classified |
| **Specific target organ toxicity- repeated exposure:** | No data available / Not classified |
| **Other Hazards Effects:** | No data available |

## SECTION 12: ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE**
Phosphatidylcholine, Propanoic acid, Alcohol ethoxylate — The information presented below is for the active ingredient.

**ECO-ACUTE TOXICITY**

| | | |
|---|---|---|
| **Aquatic Toxicity:** | **Fish, $LC_{50}$ 96 hour** | 130 mg/L |
| | **Daphnia magna, $LC_{50}$ 48 hour** | 190 mg/L |
| **Arthropod Toxicity:** | **Bees, Acute $LD_{50}$** | No data available |
| **Bird Toxicity:** | **Mallard Duck, $LD_{50}$** | No data available |
| | **Bobwhite Quail, $LD_{50}$** | No data available |
| **Algal Toxicity:** | **Algae, $LC_{50}$ 96 hour** | No data available |
| **Soil Organism Toxicity:** | **Earthworm acute toxicity** | No data available |

| | |
|---|---|
| **Persistence and degradability:** | No data available/ Not established |
| **Bioaccumulation:** | No data available/ Not established |
| **Mobility in soil:** | No data available/ Not established |
| **Other adverse effects:** | Do not contaminate water supplies, lakes, streams, ponds or drains with this product. |

## SECTION 13: DISPOSAL CONSIDERATIONS

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

## SECTION 14: TRANSPORT INFORMATION

| | | |
|---|---|---|
| **DOT:** | **Packages ≤ 119 gallons** | Not Regulated |
| | **Packages > 119 gallons** | UN 1848 Propionic acid (Propanoic acid, mixture) 8, (3), PG-III, RQ 5,000 lbs. |
| **IMDG:** | UN 1848 Propionic Acid (Propanoic acid, mixture) 8, (3), PG-III, 5,000 lbs. | |
| **IATA / ICOA:** | UN 1848 Propionic Acid (Propanoic acid, mixture) 8, (3), PG-III, 5,000 lbs. | |

| | |
|---|---|
| **UN Identification No.:** | UN 1848 |
| **Proper Shipping Name:** | Propionic Acid (Propanoic acid, mixture) |
| **Hazard Class:** | 8, (3) |
| **Packing Group:** | III |
| **Reportable Quantity:** | 5,000 lbs. |
| **Environmental Hazard:** | Not applicable |
| **Freight Description:** | Agricultural Spray Adjuvant, Liquid, N.O.S. |
| **ERG Guide No.:** | 132 |

**Transport Information Note:** Truck placard:
Placard must be displayed on two opposing sides as per DOT and IMDG.
1848 must be displayed in center of placard.


This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## SECTION 15: REGULATORY INFORMATION

**OSHA Hazard Communication Standard:** **This product contains hazardous components as defined under the criteria of the Federal OSHA Hazardous Communication Standard 29 CFR 1910.1200.**

**Label Signal Word:** DANGER
**Label Information:** KEEP OUT OF REACH OF CHILDREN
**Label Information:** Hazards to Humans and Domestic Animals
DANGER: Causes severe skin burns and serious eye damage. Harmful if swallowed or if inhaled. Do not get in eyes, on skin or on clothing. Do not eat, drink or smoke when using this product. Do not breathe spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wash contaminated clothing before reuse. Avoid release to the environment.

**EPCRA SARA Title III Classification:**

| | | |
|---|---|---|
| **Section 302:** | Extremely Hazardous Substance Notification: | This material is not known to contain any Extremely Hazardous Substances. |
| **Sections 311 and 312:** | Immediate (Acute) Health Hazard: | Yes |
| | Delayed (Chronic) Health Hazard: | No |
| | Fire Hazard: | Yes |
| | Reactive Hazard: | Yes |
| | Sudden Release of Pressure Hazard: | No |

**Section 313 Toxic Release Inventory (TRI):** This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

**CERCLA Reportable Quantity (RQ):** 5,000 lbs.
**SARA 304 Reportable Quantity (RQ):** Not listed / Not available

**RCRA Hazardous Waste Classification (40 CFR 261):** Not listed / Not available

**US EPA Toxic Substances Control Act (TSCA):** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):**

| | | |
|---|---|---|
| Phosphatidylcholine, Propanoic acid, Alcohol ethoxylate | Listed as causing: | Not listed |
| | Listing date: | Not listed |
| | Listing basis: | Not listed |

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

| **International Inventories:** | |
|---|---|
| **TSCA** | Complies |
| **EINECS/ ELINCS** | Complies |
| **ENCS** | Complies |
| **IECSC** | Complies |
| **KECL** | Complies |
| **PICCS** | Complies |
| **AICS** | Complies |

## SECTION 16: OTHER INFORMATION

**Date Issued:** June 22, 2020 **Date Supersedes:** April 23, 2020 **Revision:** 1

**For all non-emergency questions about this product, please contact:**
1700 Channel Avenue
PO Box 13327
Memphis, Tennessee 38113-0327, USA
Phone: 901-774-4370
Fax: 901-774-4666
Website: www.drexchem.com

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