

# SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

---

## 1. PRODUCT AND COMPANY IDENTIFICATION

---

Product Name: **Tacheon™ Duo**  
Supplier: Precision Laboratories, LLC  
1429 S. Shields Dr.  
Waukegan, IL 60085  
Product Use: Silicone Surfactant, Spreader  
Emergency telephone number: (Chemtrec Information 24 hours) (800) 424-9300  
Customer Service, call: (847) 596-3001

---

## 2. HAZARDS IDENTIFICATION

---

### GHS Classification:

Eye Irritation, Category 2B, H320

Acute Toxicity - Inhalation, Category 4, H332



H320,H332

**Signal Word:** Warning

### Hazard Statements:

H320: Causes eye irritation.

H332: Harmful if inhaled.

### Precautionary Statements:

#### Prevention

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash protective equipment and work clothes thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P284: Wear respiratory protection.

#### Response

P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P312: Call a poison center/doctor or Chemtrec if person feels unwell.

P337+P313: If eye irritation persists: Get medical attention or advice.

---

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

---

| <u>Component</u>                     | <u>CAS Number</u> | <u>Weight %</u> |
|--------------------------------------|-------------------|-----------------|
| Organommodified polydimethylsiloxane | Proprietary       | 20 to < 50%     |

---

## SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

---

### 4. FIRST AID MEASURES

---

- If Swallowed: Rinse mouth. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give any fluids to an unconscious person.
- In on Skin: Wash affected area with plenty of soap and water. Use tepid water if available. If skin irritation occurs: Get medical advice or attention.
- If Inhaled: Move person to fresh air and keep comfortable for breathing. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration. Call a poison center/doctor or Chemtrec if person feels unwell.
- If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention or advice.
- Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.
- Other Effects: This product is not a carcinogen by NTP, OSHA and ACGIH.
- 

### 5. FIREFIGHTING MEASURES

---

- Suitable Extinguishing media: Water spray (fog), dry chemical, alcohol-resistant foam, CO<sub>2</sub> to extinguish flames.  
**Do Not use water jet.**
- Specific Hazards: In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include oxides of carbon and silicon. Measurements at temperatures above 302°F in the presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation. Use water spray to keep fire-exposed containers cool.
- PPE and Precautions: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
- 

### 6. ACCIDENTAL RELEASE MEASURES

---

- In Case of Spill: Stop the flow of material, if this is without risk. Isolate area. Keep unnecessary personnel away. Evacuate the spill area, except for cleanup personnel. Wear personal protective equipment (PPE). Control spill with adsorbent pads or booms. Recover free liquid. For recovery or disposal, add inert absorbent (sand, earth, sawdust, etc.) to spill area and shovel into containers for disposal.
- Disposal: Product is slippery under foot; Wash walking surfaces with detergent and water to reduce slipping hazard. Dispose of collected waste in accordance with federal, state and local regulations.
- 

### 7. HANDLING AND STORAGE

---

- Precautions to be Taken in Handling:** Keep container sealed when not in use. Safety goggles and eyewash recommended. USDA-accepted nitrile (CFR-20) or neoprene rubber (CFR-21) recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.
- Precautions to be Taken in Storage:** Product should be protected from ignition sources, direct sunlight and stored in a cool, dry, well ventilated area. Do not store together with food, beverage and animal feed.
- 

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

- Component Exposure Limits: None
- Eye/Face Protections: Wear protective eyewear. Contact lenses should not be worn when working with chemicals.
- Skin Protection: Wear long-sleeved shirt; long pants; socks; shoes; and barrier laminate, neoprene rubber, nitrile rubber or Viton® gloves.
- Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits or respiratory irritation is experienced, use NIOSH approved respiratory protection.

# SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

Note: When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed. Eye wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

|                   |                     |                            |              |
|-------------------|---------------------|----------------------------|--------------|
| Appearance:       | Pale yellow liquid  | UEL:                       | N/Av         |
| Odor:             | Polyether           | LEL:                       | N/Av         |
| Odor Threshold:   | N/Av                | Vapor Pressure:            | 1-mmHg       |
| pH:               | N/Av                | Vapor Density:             | > 1(Air = 1) |
| Melting Point:    | -85°F               | Density:                   | 8.51 lbs/gal |
| Boiling Point:    | >302°F (Copolymer)  | Solubility in water:       | Dispersible  |
| Flash Point:      | >261°F (Closed cup) | Volatile organic content:  | 1.09% w/w    |
| Evaporation Rate: | <1(n-BuAc = 1)      | Autoignition Temperature:  | N/Av         |
| Flammability:     | N/Av                | Decomposition Temperature: | N/Av         |

---

## 10. STABILITY AND REACTIVITY

---

|                                     |  |
|-------------------------------------|--|
| Stability:                          | Stable   |
| Possibility of Hazardous Reactions: | Hazardous polymerization will not occur.   |
| Condition to Avoid:                 | No specific data   |
| Incompatible Materials:             | No specific data.  |
| Hazardous Decomposition Products:   | In case of fire, gives off (emits): Carbon oxides Oxides of silicon. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation. |

---

## 11. TOXICOLOGICAL INFORMATION

---

|                          |  |
|--------------------------|--|
| General Information:     | This product is not tested. The information given is based on data available for the material, the components of the material, and similar materials. Aerosols of this product have a high inhalation toxicity potential. Therefore, when spraying this product and mixtures thereof with other components, exposure must be completely avoided. The use of respiratory equipment is mandatory for all spray applications. |
| Eye Irritation:          | OECD-Guidelines 405 (Acute Eye Irritation) (Rabbit): Slightly Irritating   |
| Acute Oral Toxicity:     | LD50 > 2,000-mg/kg (Rat)   |
| Acute Inhalation:        | (Aerosols) (5% Diluted aqueous solution) (Rat): > 11.78-mg/L, 4 hour   |
| Acute Inhalation:        | (Aerosols) (Rat): 2-mg/L, hour   |
| Acute Dermal Irritation: | LD50 > 2,000-mg/kg (Rat)   |
| Skin Irritation:         | OECD-Guidelines 404 (Acute Dermal Irritation) (Rabbit, 4 hr): Slightly irritating. Semi-occlusive Not Classified   |
| Other effects:           | This product is not tested. No adverse effects anticipated from available information. The information given is based on data available for the material, the components of the material, and similar materials. This material was not mutagenic in three mammalian test systems including the Chinese Hamster Ovary (CHO)/HGPRT gene mutation assay, a  |

micronucleus cytogenetic assay in mice, and an in vitro mammalian cytogenetic test. In a repeated skin application study with rats, this material caused moderate skin irritation which resolved during a post-application recovery period. There was no evidence for percutaneous cumulative or specific organ toxicity, and no effect on male or female reproductive systems. Findings from a 14-day dietary feeding study with rats show that high dosage repeated ingestion of this material causes reversible adverse effects on the male and female reproductive tracts. Additional effects seen include increased liver weight, altered blood cytology/chemistry, and thyroid enlargement (primarily hypertrophy, with some hyperplasia). Evidence of partial or complete recovery was found over a 28-day recovery period. Findings from a repeat 9-day aerosol inhalation toxicity study with rats show a no-observable-effect-level (NOEL) of less than 0.025 mg/l. Symptoms of toxicity included rales, gasping, ocular opacity, prostration, hypothermia, reduced body weight gain and food consumption, changes in clinical pathology, decreased thymus weight, and microscopic lesions in the nasal cavity. There was no effect on the male or female reproductive systems. It is not anticipated that the use of aqueous dilutions of this product would result in this type of aerosol exposure.

---

**12. ECOLOGICAL INFORMATION**

---

No data is available for this product.

---

**13. DISPOSAL CONSIDERATIONS**

---

|                          |  |
|--------------------------|--|
| Component Waste Numbers: | No EPA Waste Numbers are applicable for this product's components.   |
| Disposal Instructions:   | All wastes must be handled in accordance with local, state and federal regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.      |
| Container Reuse:         | An empty container can contain product residue, and should not be reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse. |

---

**14. TRANSPORT INFORMATION**

---

DOT Shipping Name: Not regulated

---

**15. REGULATORY INFORMATION**

---

TSCA: All components of this product are listed under the regulation of the Toxic Substance Control Act.

Hazard categories: Immediate (acute) health hazards

SARA 311/312 HAZARDOUS CHEMICAL: Organommodified polydimethylsiloxane: 10000-lbs Threshold Planning Quantity

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Polyalkylene Oxide

Organommodified polydimethylsiloxane

Polyalkylene Oxide

ALCOHOL

**SAFETY DATA SHEET**

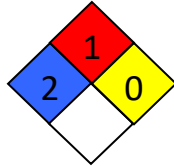
PRECISION LABORATORIES, LLC

**16. OTHER INFORMATION**

HMIS Hazard Rating

|                     |   |
|---------------------|---|
| HEALTH              | 2 |
| FLAMMABILITY        | 1 |
| REACTIVITY          | 0 |
| PERSONAL PROTECTION | X |

NFPA Rating



Date Prepared: April 23, 2019

**WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, PRECISION LABORATORIES, LLC MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.**

N/R—Not Rated

N/D—Not Determined

N/A—Not Applicable

N/E—Not Established

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry