



Trade name: Activators for PPS-9350

#### SECTION 1: Identification

**Product identifier used on the label:**

**Product Name:** PPS-9365, PPS-9375, PPS-9385

**Other means of identification:**

**Product Code Number:** 286, 287, 288

**Recommended use of the chemical and restrictions on use:**

**Recommended use:** Automotive Coating Component

**Recommended restrictions:** Uses other than those described above.

**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**

**Company Name:** Palmetto Specialties Inc.

**Company Address:** 4250 Scott St  
North Charleston, SC 29405

**Company Telephone:** (843) 225-2026

**Emergency phone number:** 24 hour Emergency Number (800) 424-9300

#### SECTION 2: Hazard(s) identification

**Classification of the chemical in accordance with paragraph (d) of §1910.1200:**

***Physical hazards***

Flammable liquid, category 2

***Health hazards***

Acute toxicity, category 4, inhalation

Skin sensitization, category 1B

Specific target organ toxicity, single exposure, category 3

Carcinogenicity, category 2

Reproductive toxicity, category 2

***Environmental hazards***

Not adopted under OSHA paragraph (d) of §1910.1200

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**GHS Signal word:** DANGER

**GHS Hazard statement(s):** Highly flammable liquid and vapor  
May cause an allergic skin reaction  
Harmful if inhaled.  
May cause respiratory irritation.  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child.

**GHS Hazard symbol(s):**



**GHS Precautionary statement(s):**

**Prevention:**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- Keep container tightly closed.
- Ground/Bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing dust/fume/gas/mist/ vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- Call a poison center/doctor if you feel unwell.
- If exposed or concerned: Get medical advice/attention.
- Specific treatment (see sections 4 to 8 on this SDS and any further information on the label).
- If skin irritation or rash occurs: Get medical advice/attention.

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- Wash contaminated clothing before reuse.
- In case of fire: Use foam, powder, or carbon dioxide to extinguish.

### Storage:

- Store in a well-ventilated place. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

### Disposal:

- Dispose of contents/container to an approved disposal site in accordance with local/regional/national/ international regulations

### Hazard(s) not otherwise classified (HNOC):

None known.

### Percentage of ingredient(s) of unknown acute toxicity:

54% of the mixture consists of ingredients of unknown acute toxicity (oral)

7% of the mixture consists of ingredients of unknown acute toxicity (dermal)

## SECTION 3: Composition/information on ingredients

Chemical name	CAS#	Concentration (weight %)
Hexamethylene diisocyanate homopolymer	28182-81-2	40 – 47%
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	98-56-6	10 – 15%
n Butyl acetate	123-86-4	5 - 10%
Isophorone Diisocyanate Homopolymer	53880-05-0	3 – 7%
Xylene	1330-20-7	< 0.5%

Note: Specific chemical identity and/or percentage of composition of some of the components has been withheld as a trade secret.

The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

## SECTION 4: First-aid measures

### Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

**Inhalation:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult,

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give oxygen. Oxygen should only be administered by qualified personnel. Seek medical advice.

**Skin contact:** Remove contaminated clothing. Wash with water and soap and rinse thoroughly. Seek medical advice if irritation or pain develops.

**Eye contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Ingestion:** Do NOT induce vomiting. If swallowed, wash mouth out with water provided the person is conscious. Follow with plenty of water. NEVER GIVE LIQUIDS TO AN UNCONCIOUS PERSON. Call a physician.

**Most important symptoms/effects, acute and delayed:**

May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

**Indication of immediate medical attention and special treatment needed:**

If any symptoms are observed, contact a physician and give them this SDS sheet. Treat symptomatically.

### SECTION 5: Fire-fighting measures

**Suitable (and unsuitable) extinguishing media:**

**Suitable extinguishing media:** Water fog. Foam. Dry chemical powder. Carbon dioxide.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):**

HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water.

Hazardous combustion products may include the following substances: carbon monoxide, carbon dioxide, nitrogen oxides, isocyanate vapors and traces of hydrogen cyanide.

**Special protective equipment and precautions for fire-fighters:**

Use water spray or fog for cooling exposed containers. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate all non-emergency personnel from area. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

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### SECTION 6: Accidental release measures

#### **Personal precautions, protective equipment and emergency procedures:**

No action shall be taken involving any personal risk or without suitable training. Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from, and upwind of spill/leak. Wear appropriate personal protective equipment. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

#### **Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities.

#### **Methods and material for containment and cleaning up:**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

### SECTION 7: Handling and storage

#### **Precautions for safe handling:**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

#### **Conditions for safe storage, including any incompatibles:**

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

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Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

### SECTION 8: Exposure controls/personal protection

**OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.**

Substance	OSHA PEL	ACGIH TLV	NIOSH IDLH
Hexamethylene diisocyanate homopolymer	None known	None known	None known
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	None known	None known	None known
n Butyl acetate (listed under Butyl acetates, all isomers)	150 ppm TWA; 710 mg/m <sup>3</sup> TWA	150 ppm STEL 50 ppm TWA	200 ppm STEL; 950 mg/m <sup>3</sup> STEL 150 ppm TWA; 710 mg/m <sup>3</sup> TWA 1700 ppm IDLH
Isophorone Diisocyanate Homopolymer	None known	None known	None known
Xylene	150 ppm STEL; 655 mg/m <sup>3</sup> STEL (vacated) 100 ppm TWA; 435 mg/m <sup>3</sup> TWA	150 ppm STEL 100 ppm TWA	None known

#### Appropriate engineering controls:

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended. Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

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### Individual protection measures, such as personal protective equipment:

**Eye/face protection:** Wear safety glasses, safety glasses with side shields or safety goggles. Use equipment for eye protection tested and approved under NIOSH standards.

**Skin and hand protection:** Chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical resistant apron.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a chemical respirator with organic vapor cartridge and full facepiece. Use respirators and components tested and approved under appropriate government standards such as NIOSH).

**General hygiene considerations:** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### SECTION 9: Physical and chemical properties

#### Appearance (physical state, color, etc.):

<b>Physical state:</b>	Liquid
<b>Color:</b>	Clear, colorless
<b>Odor:</b>	Solvent
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/freezing point:</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	22 °C
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable.

#### Upper/lower flammability or explosive limits

<b>Lower limit (%):</b>	Not available
<b>Upper limit (%):</b>	Not available
<b>Vapor pressure:</b>	15 mm Hg
<b>Vapor density:</b>	Not available
<b>Relative density:</b>	1.0

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<b>Solubility (ies):</b>	Slightly soluble in water. Easily soluble in acetone.
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity (dynamic):</b>	Not available
<b>VOC:</b>	438 g/l

### SECTION 10: Stability and reactivity

<b>Reactivity:</b>	Highly flammable.
<b>Chemical stability:</b>	Stable under recommended storage and handling conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous reactions not anticipated under recommended storage and handling conditions. Reacts violently with light materials (Na, K, etc.). Reacts violently with sulphonitrate mixture (sulphuric acid plus nitric acid). Incompatible with highly oxidant substances, such as permanganates, dychromates, strong acids, halogens and their mixtures. Reacts violently with amines (exothermic).
<b>Conditions to avoid:</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials:</b>	Acids, alkalis, powerful oxidants, alcohols, halogens.
<b>Hazardous decomposition Products:</b>	No decomposition if used and stored according to specifications. In case of fire, carbon monoxide, carbon dioxide, nitrogen oxides, isocyanate vapors and traces of hydrogen cyanide may be formed.

### SECTION 11: Toxicological information

#### Information on likely routes of exposure:

<b>Inhalation:</b>	May cause respiratory irritation. Harmful if inhaled.
<b>Ingestion:</b>	None known
<b>Skin:</b>	May cause an allergic skin reaction
<b>Eyes:</b>	May cause eye irritation.

**Target Organs:** Skin, Respiratory Tract, Central Nervous System

#### Symptoms related to the physical, chemical, and toxicological characteristics:

May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation.

#### Delayed and immediate effects and chronic effects from short or long-term exposure:

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

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**Numerical measures of toxicity (such as acute toxicity estimates):**

**Acute toxicity:** Harmful if inhaled.

Substance	Test Type (species)	Value
Hexamethylene diisocyanate homopolymer	LD <sub>50</sub> Oral (Rat)	None known
	LD <sub>50</sub> Dermal (Rat)	> 2000 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	18500 mg/m <sup>3</sup> 1h
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	LD <sub>50</sub> Oral (Rat)	13 g/kg
	LD <sub>50</sub> Dermal (Rabbit)	> 3300 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	33 mg/L 4h
n Butyl acetate	LD <sub>50</sub> Oral (Rat)	10768 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	> 17600 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	0.74 mg/L 4h
Isophorone Diisocyanate Homopolymer	LD <sub>50</sub> Oral (Rat)	None known
	LD <sub>50</sub> Dermal (Rabbit)	None known
	LC <sub>50</sub> Inhalation (Rat)	> 5010 mg/m <sup>3</sup> 4h
Xylene	LD <sub>50</sub> Oral (Rat)	3500 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	> 4350 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	29.08 mg/L 4h

<b>Skin corrosion/irritation:</b>	Does not meet the criteria for classification.
<b>Serious eye damage/eye irritation:</b>	Causes serious eye irritation
<b>Respiratory sensitization:</b>	Does not meet the criteria for classification
<b>Skin sensitization:</b>	May cause an allergic skin reaction
<b>Germ cell mutagenicity:</b>	Does not meet the criteria for classification
<b>Carcinogenicity:</b>	Does not meet the criteria for classification.
<b>Reproductive toxicity:</b>	May damage fertility or the unborn child.
<b>Specific target organ toxicity- Single exposure:</b>	May cause drowsiness or dizziness.
<b>Specific target organ toxicity- Repeat exposure:</b>	May cause damage to organs (kidney, liver, spleen, blood) through prolonged or repeated exposure.
<b>Aspiration hazard:</b>	Does not meet the criteria for classification.

**Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:**

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Component	IARC	NTP	ACGIH	OSHA
Hexamethylene diisocyanate homopolymer	Not Listed	Not Listed	Not Listed	Not Listed
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	Group 2B (Possibly Carcinogenic to Humans)	Present (listed under para-Chlorotrifluoro toluene)	Not Listed	Present
n Butyl acetate	Not Listed	Not Listed	Not Listed	Not Listed
Isophorone Diisocyanate Homopolymer	Not Listed	Not Listed	Not Listed	Not Listed
Xylene	Not Listed	Not Listed	A4 - Not Classifiable as a Human Carcinogen	Not Listed

### SECTION 12: Ecological information

**Ecotoxicity (aquatic and terrestrial, where available):** Harmful to aquatic life with long lasting effects.

Substance	Test Type	Species	Value
Hexamethylene diisocyanate homopolymer	LC <sub>50</sub>	Fish	None known
	EC <sub>50</sub>	Aquatic Invertebrates	None known
	EC <sub>50</sub>	Algae	None known
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	LC <sub>50</sub>	Fish Danio rerio	3 mg/L 96h
	EC <sub>50</sub>	Aquatic Invertebrates - Daphnia magna	3.68 mg/L 48h
	ErC <sub>50</sub>	Algae	None known
n Butyl acetate	LC <sub>50</sub>	Fish Pimephales promelas	17 - 19 mg/L 96h
	EC <sub>50</sub>	Aquatic Invertebrates - Daphnia magna	72.8 mg/L 24h
	EC <sub>50</sub>	Algae Desmodesmus subspicatus	674.7 mg/L 72h
Isophorone Diisocyanate Homopolymer	LC <sub>50</sub>	Fish	None known
	EC <sub>50</sub>	Aquatic Invertebrates	None known
	EC <sub>50</sub>	Algae	None known
Xylene	LC <sub>50</sub>	Fish Oncorhynchus mykiss	2.661 - 4.093 mg/L
	EC <sub>50</sub>	Aquatic Invertebrates - Daphnia magna	3.82 mg/L 48h
	EC <sub>50</sub>	Algae	None known

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### **Persistence and Degradability:**

No data available for this product

### **Bioaccumulative Potential:**

No data available for this product

### **Mobility in Soil:**

No data available for this product

### **Other adverse effects (such as hazardous to the ozone layer):**

Harmful to aquatic life with long lasting effects.

## **SECTION 13: Disposal considerations**

### **Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.**

#### **Product**

Dispose of waste materials in accordance with applicable local and national laws and regulations. Where possible, recycling is preferred to disposal or incineration. Contact the proper local authorities.

#### **Contaminated packaging**

Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of as unused product.

## **SECTION 14: Transport Information**

### **US Department of Transportation Classification (49CFR)**

UN 1263 Paint related material, 3, II

### **IMDG (Transport by sea)**

UN 1263 Paint related material, 3, II

### **IATA (Country variations may apply)**

UN 1263 Paint related material, 3, II

### **Environmental hazards**

Marine pollutant: No

### **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**

No further relevant information available.

### **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.**

None known

## Activators for PPS-9350

### SECTION 15: Regulatory Information

#### USA:

**United States Federal Regulations:** This SDS complies with the OSHA, 29 CFR 1910.1200. The product is classified as hazardous under OSHA.

**Toxic Substances Control Act (TSCA)** – All components are listed on the TSCA inventory.

#### **CERCLA RQ (lbs) Ingredients (> 0.1%):**

Chemical	CAS No	
n Butyl acetate	123-86-4	5000 lb final RQ (listed under Butyl acetate); 2270 kg final RQ (listed under Butyl acetate)
Xylene	1330-20-7	100 lb final RQ; 45.4 kg final RQ

#### **SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311, 312 and 313: Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) (> 0.1%):**

None of the components are listed

#### **Section 311/312 (40 CFR 370) (> 0.1%):**

Flammable (gases, aerosols, liquids or solids)

Acute toxicity (any route of exposure)

Reproductive toxicity

Carcinogenicity

Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

#### **Section 313 Toxic Release Inventory (40 CFR 372) (> 0.1%):**

None of the components are listed

#### STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

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

4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene (98-56-6) is listed as a carcinogen, June 28, 2019

#### **Massachusetts Right to Know:**

n Butyl acetate is listed

#### **New Jersey Right to Know:**

n Butyl acetate and Xylene are listed

#### **Pennsylvania Right to Know:**

n Butyl acetate and Xylene are listed

## Activators for PPS-9350

### SECTION 16: Other Information

**Revision Date:** March 7, 2023

**DISCLAIMER:** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.