Trade name: PPS-8852 Activator

SECTION 1: Identification

Product identifier used on the label:
Product Name: PPS-8852

Other means of identification:
Product Code Number: 204

Recommended use of the chemical and restrictions on use:
Recommended use: Paint activator
Recommended restrictions: Uses other than those described above

Name, U.S. address, and U.S. 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 identification

Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200:
Physical hazards
Flammable liquid, category 2

Health hazards
Skin sensitization, category 1B
Specific target organ toxicity, single exposure, category 3

Environmental hazards
Not adopted under OSHA paragraph (d)(1)(i) of §1910.1200

GHS Signal word: DANGER

GHS Hazard statement(s): Highly flammable liquid and vapor
May cause an allergic skin reaction
May cause respiratory irritation

GHS Hazard symbol(s):

GHS Precautionary statement(s):

Prevention:

- 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 non-sparking tools.
- Take action to prevent 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/hearing protection

Response:

- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/[or shower].
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- Call a poison center/doctor if you feel unwell.
- 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.
- Take off contaminated clothing and wash it before reuse.
- In case of fire: Use water spray, carbon dioxide, foam or chemical powder to extinguish.

Storage:

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

Disposal:

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

Describe any hazards not otherwise classified that have been identified during the classification process:
None known.

Percentage of ingredient(s) of unknown acute toxicity:
Not applicable

SECTION 3: Composition/information on ingredients

Chemical name	CAS#	Concentration (weight %)
4-Chlorobenzotrifluoride	98-56-6	70 - 80%
Hexamethylene Diisocyanate Homopolymer	28182-81-2	13 - 25%
Isophorone Diisocyanate Homopolymer	53880-05-0	2 - 4%
N-butyl acetate	123-86-4	0.5 – 1.5%
Ethyl Acetate	141-78-6	0.5 – 1.5%

The balance of the ingredients is 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 (2024).

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, 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. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed, if necessary:
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: Use water spray, carbon dioxide, foam or chemical powder to extinguish
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, HF and HCl fumes.

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).

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.
Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where 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. Use a face mask with an ABEK filter for organic substances in presence of vapors.

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.
Provide waterproof, anti-corrosion electrical systems. Inform personnel of the product's hazards. Install emergency showers in the vicinity of storage areas. Handle containers wearing anti-acid overalls and boots, gloves, a helmet and visor. Lorries must be loaded wearing a visor, helmet and gloves. Do not keep the product in sections of tubing and/or circuits demarcated between two closed valves or in recipients not equipped with safety air vents. 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 such as highly oxidizing substances, such as permanganates, dichromates, strong acids, halogens and their mixtures. (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

For all ingredients or constituents listed in Section 3, the OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit

Value (TLV), and any other exposure limit or range used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Substance	OSHA PEL	ACGIH TLV	NIOSH IDLH
4-Chlorobenzotrifluoride	None known	None known	None known
Hexamethylene Diisocyanate Homopolymer	None known	None known	None known
Isophorone Diisocyanate Homopolymer	None known	None known	None known
N-butyl acetate	150 ppm, 710 mg/m3 TWA	50 ppm TWA 150 ppm STEL	150 ppm, 710 mg/m3 TWA 200 ppm, 950 mg/m3 STEL
Ethyl Acetate	400 ppm, 1400 mg/m3 TWA	400 ppm TWA	400 ppm, 1400 mg/m3 TWA

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.

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 such as Neoprene gloves, PVA (polyvinyl acetate) or nitrile rubber. 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

Physical state:	Viscous liquid.
Color:	Clear
Odor (includes odor threshold):	Not determined
Melting point/freezing point:	Not determined
Boiling point (or initial boiling point or boiling range):	Not determined
Flammability:	Highly flammable liquid
Lower and upper explosion limit/flammability limit:	
Lower limit (%):	Not determined
Upper limit (%):	Not determined
Flash point:	-1 ^{o}C
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
pH:	Not determined
Kinematic viscosity:	Not determined
Solubility:	Slightly soluble in water, Soluble in Methanol. Easily soluble in acetone.
Partition coefficient n-octanol/water (log value):	Not determined
Vapor pressure (includes evaporation rate):	10.6 mm Hg
Density and/or relative density:	1.27
Relative vapor density:	Not determined
Particle characteristic:	Not determined
Volatile Organic Compound (VOC):	100 g/L

SECTION 10: Stability and reactivity

Reactivity:	Highly flammable. Reacts violently with light materials (Na, K, etc.). Reacts violently with sulfo-nitrate mixture (sulfuric acid plus nitric acid).

Chemical stability:	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions, including those associated with foreseeable emergencies:	Hazardous reactions not anticipated under recommended storage and handling conditions.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials:	Incompatible with highly oxidizing substances, such as permanganates, dichromates, strong acids, halogens and their mixtures.
Hazardous decomposition products:	No decomposition if used and stored according to specifications. Will produce Carbon monoxide, Carbon dioxide, nitrogen oxides, HF and HCl fumes on combustion.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: May cause respiratory irritation
Ingestion: May be harmful if swallowed.
Skin: May cause an allergic skin reaction.
Eyes: May cause serious eye irritation.

Target Organs: Skin, Respiratory Tract

Symptoms related to the physical, chemical, and toxicological characteristics:
May cause an allergic skin reaction. May cause respiratory irritation

Delayed and immediate effects and also chronic effects from short or long-term exposure:
No additional effects known

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

Acute toxicity: Does not meet the criteria for classification.

Substance	Test Type (species)	Value
4-Chlorobenzotrifluoride	LD_{50} Oral (Rat)	5546 mg/kg
	LD_{50} Dermal (Rabbit)	> 3300 mg/kg
	LC_{50} Inhalation (Rat)	> 32.03 mg/L air 4h
Hexamethylene Diisocyanate Homopolymer	LD_{50} Oral (Rat)	> 2500 mg/kg
	LD_{50} Dermal (Rat)	> 2000 mg/kg
	LC_{50} Inhalation (Rat)	543 mg/m³ air 4h

Isophorone Diisocyanate Homopolymer	LD_{50} Oral (Rat)	> 14000 mg/kg
	LD_{50} Dermal (Rabbit)	None known
	LC_{50} Inhalation (Rat)	> 5010 mg/m³ air 4h
N-butyl acetate	LD_{50} Oral (Rat)	12.2 mL/kg
	LD_{50} Dermal (Rat)	> 16 mL/kg
	LC_{50} Inhalation (Rat)	0.74 mg/L 4h
Ethyl Acetate	LD_{50} Oral (Rat)	5620 mg/kg
	LD_{50} Dermal (Rabbit)	> 20 000 mg/kg
	LCL_0 Inhalation (Rat)	> 6000 ppm 6h

Skin corrosion/irritation: Does not meet the criteria for classification

Serious eye damage/eye irritation: Does not meet the criteria for classification

Respiratory sensitization: Does not meet the criteria for classification

Skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Does not meet the criteria for classification

Carcinogenicity: Does not meet the criteria for classification.

Reproductive toxicity: Does not meet the criteria for classification

Specific target organ toxicity- May cause respiratory irritation.

Specific target organ toxicity-Repeat exposure: Does not meet the criteria for classification

Aspiration hazard: Does not meet the criteria for classification

Interactive effects: None known

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:

Component	IARC	NTP	ACGIH	OSHA
4-Chlorobenzotrifluoride	Group 2B	Not Listed	Not Listed	Listed
Hexamethylene Diisocyanate Homopolymer	Not Listed	Not Listed	Not Listed	Not Listed
Isophorone Diisocyanate Homopolymer	Not Listed	Not Listed	Not Listed	Not Listed
N-butyl acetate	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl Acetate	Not Listed	Not Listed	Not Listed	Not Listed

SECTION 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

Substance	Test Type	Species	Value
4-Chlorobenzotrifluoride	LC_{50}	Fish Danio rerio	3 mg/L 96h
	EC_{50}	Aquatic Invertebrates - Daphnia magna	2 mg/L 48h
	EC_{50}	Algae Green algae	> 0.41 mg/L 48h
Hexamethylene Diisocyanate Homopolymer	LC_{50}	Fish Danio rerio	> 100 mg/L 96h
	EC_{50}	Aquatic Invertebrates - Daphnia magna	127 mg/L 48h
	EC_{50}	Algae Desmodesmus subspicatus	> 1000 mg/L 72h
Isophorone Diisocyanate Homopolymer	LC_{50}	Fish Cyprinus carpio	> 1.5 mg/L 96h
	EC_{50}	Aquatic Invertebrates - Daphnia magna	> 3.36 mg/L 48h
	EC_{50}	Algae Scenedesmus subspicatus	> 3.1 mg/L 72h
N-butyl acetate	LC_{50}	Fish Pimephales promelas	18 mg/L 96h
	EC_{50}	Aquatic Invertebrates - Daphnia magna	44 mg/L 48h
	EC_{50}	Algae Desmodesmus subspicatus	397 mg/L 96h

Ethyl Acetate	LC_{50}	Fish Pimephales promelas	230 mg/L 96h
	EC_{50}	Aquatic Invertebrates - Daphnia pulex	260 mg/L 48h
	NOEC	Algae Scenedesmus subspicatus	2000 mg/L 96h

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):
None known

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

UN number: UN 2234
UN proper shipping name: CHLOROBENZOTRIFLUORIDES
Transport hazard class(es): 3
Packing group, if applicable: III

Environmental hazards
Marine pollutant: No

Transport in bulk (according to IMO instruments)
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

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 or are exempt.

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

Chemical	CAS No	
N-butyl acetate	123-86-4	5000 lb final RQ; 2270 kg final RQ
Ethyl Acetate	141-78-6	5000 lb final RQ; 2270 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)
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 that is applicable for state requirements. For details of 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-Chlorobenzotrifluoride is listed as causing cancer, 6/28/2019

Massachusetts Right to Know:
n-Butyl acetate is listed

New Jersey Right to Know:
n-Butyl acetate and Ethyl Acetate are listed

Pennsylvania Right to Know:
n-Butyl acetate and Ethyl Acetate are listed

SECTION 16: Other Information

Revision Date: October 24, 2024

The US Regulations do not require the use of H and P codes in front of the hazard and precautionary statements; however, they have been included below for information purposes.

H225 - Highly flammable liquid and vapor.
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment
P241- Use explosion-proof [electrical/ventilating/lighting] equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharge.
P261 - Avoid breathing dust/fume/gas/mist/ vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/[or shower].
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a poison center/doctor if you feel unwell.
P321 - Specific treatment (see sections 4 to 8 on this SDS and any further information on the label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use water spray, carbon dioxide, foam or chemical powder to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up
P501 - Dispose of contents/container to an approved disposal site in accordance with local/regional/national/ international regulations

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.